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ABSTRACT

This study attempted to discover the distribution of feelings of security and insecurity in the population of Illinois Central College (ICC) and whether significant differences exist among various subgroups. A 10 per cent stratified random sample of students were administered Maslow's Security-Insecurity Inventory. No significant difference was found between ICC students and Maslow's norm population. No significant difference was found among the curriculum groups of business, health, technical, and agricultural students, or between transfer and terminal students. Day students, however, were found to differ at the .01 level of significance from night students. They showed less confidence, less stability, and a greater concern with self-identity in relation to present and future worlds. The author stated that the insecure person tends to be more dogmatic, less effective in critical thinking, and less creative than the secure person. He recommended that student personnel workers facilitate security-need satisfaction by offering students a safe, confidential relationship with an understanding adult, and that instructors offer warm encouragement, success experiences, and increased individual attention to help aleviate students feelings of insecurity. (MC)



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PSYCHOLOGICAL SECURITY-INSECURITY OF ILLINOIS CENTRAL COLLEGE STUDENTS

DAVID R. GROUT

A Thesis Submitted in Partial
Fulfillment of the Requirements
for the Degree of

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ERIC CLEARINGHOUSE FOR JUNIOR COLLEGES

1969



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D. R. G.



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CHAPTER I

INTRODUCTION

Introductory Statement

No affective need of junior college students is as vitally important to success both within and without the classroom as is the need for psychological security.

Until student needs for psychological security are satisfied beyond some basic level, academic and social behavior will be dominated by this pressing, unfulfilled need.

Psychologically insecure students are likely less creative, less able to perform critical thinking, and are in general, less effective as persons in all realms of their functioning than psychologically secure students.

That satisfaction of security needs may be a necessary precondition to critical thinking and thus, effective decision making, is suggested by Kemp's research on the effects of degmatism on critical thinking. In his study, Kemp used Rokeach's Dogmatism Scale (Form E) to form two groups of students, those characterized as open-minded and those who were close-minded. He then used two problems that were in part related to security needs to test these students' ability to perform critical thinking. Kemp

found open-minded students to be superior to close-minded in critical thinking at the .Ol level of significance.1

According to Kemp, intolerance of ambiguity likely impels the insecure, close-minded person to conclude decision-making processes before fully considering all relevant alternatives. The close-minded person likely distorts or narrows the problem, thus changing it from one which offers a form of threat, to one which allows satisfaction of security needs. Kemp writes of the difference between the open- and close-minded:

Decisions whose outcomes would provide more security, greater maintenance of the statusquo, and more approval from authority figures would be more acceptable to the close-minded . . . those decisions which may offer a greater breadth of experience and more independence, and which encompass a wide range of facts and lead to breader and satisfying relationships with people are more attractive to those with open minds.

Maslow theorizes that the need for physical and psychological security may dominate behavior of the insecure person. Capacities of such a person, e.g. receptors, effectors, and the intellect, are used primarily



Gratton C. Kemp, "Effect of Dogmatism on Critical Thinking," School Science and Mathematics, 60:316-318 (April, 1960).

²P. 318.

³Gratton C. Kemp, <u>Intangibles in Counseling</u>, p. 178.

as tools for satisfying this pressing med. The childlike spontaneity characteristic of creativity found in all
self-actualizing people (Maslow's super healthy people) is
likely throttled and inhibited by such a pressing and
behavior determining need. The implication of these
ideas is that junior college students who are psychologically insecure will not develop and exercise their
creativity fully in their junior college work.

Insecure students whose creativity is stifled, and whose ability to think critically is concentrately hampered by closure, cannot function in a truly effective way in any area of endeavor. Thus, social as well as academic success commensurate with individual potentials is highly unlikely for such students. The result of attempting junior college work for such insecure students may well be failure, or dropping out of school.

It is the contention of this writer that all student needs affecting success in junior college work should be the concern of junior college staff. Operationally, no dichotomies exist between various functioning areas; for example, needs of students are simultaneously

⁴A. H. Maslow, Motivation and Personality, p. 84.

5p. 224.

Lindzey show "that perceiving, learning, remembering, and thinking are influenced by needs, interests, moods and emotions." Gertainly most junior college staff would agree that perceiving, learning, remembering, and thinking are important concerns. Few would say or show through actions, however, that needs, interests, moods, and emotions are their concern. Yet, if cross-influences exist, as Hall and Lindzey's review suggests, all psychological functions of students that may alter success in junior college work need to be understood by junior college staff.

Sanford writes of the college student's personality, and implications for curriculum and personnel planning:

cannot make any categorical separation of the "intellect" and the rest of the person. Changes in what might be called the intellect, changes in knowledge and in modes of thought, if they amount to anything, would bring with them changes in the rest of the personality, just as changes in the rest of the personality leave the individual in a different state of receptivity to knowledge and facts.

Galvin S. Hall and Gardner Lindsey, Theories of Personality, p. 522.

⁷Novitt Sanford, "Implications of Personality Studies for Curriculum and Personnel Planning," in Robert L. Sutherland and others, eds., Personality Factors on the College Campus, p. 6.

Although Sanford is concerned with the four-year college student, his view has implications for the junior college student as well. That is, personality change both influences and is influenced by, experiences in the junior college classroom. It follows that a change in satisfaction of psychological security needs of students may facilitate or restrict learning, depending on the direction of such change.

That student needs should be met by services offered is a common thems within the field of student personnel services. Mueller, for example, writes, "the factors which . . . establish the philosophy of college personnel work have always included . . . the needs and characteristics of students." Although Mueller is writing about the four-year college, the goal of need satisfaction of students is also expressed at the junior college level by many writers (Blocker, Plummer, and Richardson, 1965; Medsker, 1960; Brumbaugh, 1954; and

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⁸Kate Hevner Mueller, Student Personnel Work in Higher Education, p. 501.

Raines, 1965).9

Only when affective as well as cognitive and other needs are understood can student personnel workers at ICC and elsewhere more effectively seek to implement the often expressed goal of providing services to satisfy student needs. It is not enough to say that these needs are important; research must provide a clear picture of affective needs so that services offered will truly



Octyde E. Blocker and others, The Two-Year College: A Social Synthesis, p. 240; Leland L. Medsker, The Junior College: Progress and Prospect, p. 7; A. J. Brumbaugh, "Student Personnel Work in Transition," Junior College Journal, 25:18 (September, 1954); Max R. Raines, "Report to the Carnegie Corporation on Appraisal and Development of Junior College Student Personnel Programs," in Report to Carnegie Corporation, November, 1965, Junior College Student Personnel Programs; Appraisal and Development, p. 8.

¹⁰ Illinois Central College, Student Personnel Services: The Vital Link, n.p.

satisfy needs of students.

Knowledge of affective needs is not the sole concern of the student personnel workers in a junior college. These needs are also of vital importance to instructional staff. Garrison writes that emotional problems are a common classroom occurrence, and that junior college teachers should, therefore, act in the role of teachercounselor in fulfilling their normal professional duties. 11 Taylor reports that individual conferences with students are necessary for student success, and that a full understanding of students' affective needs would facilitate more effective communication between himself and students in these interviews. 12 Bossone recommends the teacher of remedial English provide warm encouragement to the insecure remedial student through use of teacherstudent conferences so as to facilitate student success. 13 Roueche writes that male remedial students are more



Junior College Journal, 34:12 (October, 1963).

¹² Interview with Karl K. Taylor, Instructor in Communications, Illinois Central College, East Peoria, Illinois, June 9, 1969.

¹³Richard M. Bossons, The Writing Problems of Remedial English Students in Community Colleges of the City University of New York, City University Research and Evaluation Unit for Special Programs, 1969, p. 54.

sonsitive to loss of status involved in remedial courses than females. "Male students exhibiting high anxiety are the first to see the class as conflicting with their own personal motivations and the first to drop out of the course."

A knowledge of affective needs of students will help the junior college bring democratic ideals of the open-door policy into a reality of experience for its students. The ideals extended by this policy to what is likely the most heterogeneous student body in higher education today include: (1) the provision of opportunities so each American may achieve whatever his ambitions and abilities allow, and (2) education of a continuing nature for all people. If the sole function of the junior college is to weed out the unfit through rejection at midsemesters, it will have failed in seeking these democratic ideals. Instead, the junior college must seek to rehabilitate students who are educationally handicapped. For those students not damaged by competition and devaluation of prior educational experience, the junior college must



¹⁴ John E. Roueche, Salvage, Redirection, or Custody?, Monograph of the ERIC Clearinghouse for Junior College Information, American Association of Junior Colleges, 1968, p. 46.

offer the opportunity for further development. 15 Understanding affective needs such as the need of students for psychological security will help the junior college succeed in the rehabilitative and developmental tasks posed by the democratic ideals expressed in the open-door policy.

rity may dominate patterns of thinking, perceiving, and behaving, and that such influence is detrimental to student success in the junior college, it becomes vital for junior college staff to understand student needs for psychological security. Of what use is the open door, and the junior college's location near home, if after entering, students fail because needs for psychological security block effective learning and decision making? It is clear that the junior college can best succeed as a student centered institution if security needs of its students are understood by a concerned staff.

Statement of Problem

The problem, then, is: How are feelings of psychological security-insecurity distributed generally



¹⁵ James D. McHolland, "From Stress to the Release of Human Potential," address delivered to the Illinois College Personnel Association, September 27, 1968, Chicago, Illinois.

through the entire population of a given junior college, and are there any differences in feelings on psychological security-insecurity among various groups within this everall population?

Null Hypotheses

The following null hypotheses were tested:

- There is no significant difference between the mean level of security-insecurity of the overall, general population of students at Illinois Central College and the mean level of security-insecurity found by Maslow (N = 2,020) as given in Table VI of the Manual for the Security-Insecurity Inventory.
- 2. There is no significant difference between the form of the distribution of security-insecurity among Illinois Central College students and the form of the distribution found by Maslow (N = 2,020) as given in Table VI of the Manual for the Security-Insecurity Inventory.
- 3. There is no significant difference among mean levels of security-insecurity as found in:
 (1) Business students; (2) Health students;
 (3) Technical students; and (4) Agriculture students, of Illinois Central College.

- 4. There is no significant difference between mean levels of psychological security-insecurity in Day and Night students at Illinois Central College.
- 5. There is no significant difference between mean levels of psychological security-insecurity in Transfer and Terminal students at Illinois Central College.
- 6. The difference in psychological securityinsecurity between Day and Night Transfer
 students does not differ significantly from
 the difference in psychological securityinsecurity between Day and Night Terminal
 students.

Definition of Terms

The term "security" is defined by the summation of the security subsyndromes; the term "insecurity" is defined by the summation of the insecurity subsyndromes. These subsyndromes are contained in Table 1.

The term "need" is defined as "the lack of something which, if present, would tend to further the welfare of the organism . . . it is implied . . . that the

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TABLE 1
SECURITY-INSECURITY SUBSYNDROMES^a

Insecurity Security 1. Feeling of rejection, of 1. Feeling of being liked being unloved, of being or loved, or being actreated coldly and withcepted, of being looked out affection, or of beupon with warmth. ing hated, of being despised. 2. Feelings of isolation, 2. Feelings of belonging, ostracism, aloneness, or of being at home in the being out of it; feelings the world, of having a of "uniqueness." place in the group. 3. Constant feelings of 3. Feelings of safety; rare threat and danger; feelings of threat and anxiety. danger; unanxious. 4. Perception of the world 4. Perception of the world and life as dangerous, and life as pleasant, threatening, dark, hoswarm, friendly, or benetile, or challenging; as volent, in which all men a jungle in which every tend to be brothers. man's band is against every other, in which one eats or is eaten. 5. Perception of other human 5. Perception of other beings as essentially bad, human beings as essenevil, or selfish; as dantially good, pleasant, gerous, threatening, hoswarm, friendly, or tile, or challenging. benevolent. 6. Feelings of mistrust, of 6. Feelings of friendliness envy or joalousy toward and trust in others; others; much hostility, easy affection for projudice, hatred. others. 7. Tendency to expect the 7. Tendency to expect good worst; general pessimism. to happen; general optimism.

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TABLE 1 (continued)

- 8. Tendoncy to be unhappy or discontented.
- 9. Feelings of tension, strain, or conflict, together with various consequences of tension,
 e.g., "nervousness,"
 fatigue, irritability,
 nervous stomach, and
 other psychosematic disturbances; nightmares;
 emotional instability,
 vaciliation, uncertainty,
 and inconsistency.
- 10. Tendency to compulsive introspectiveness, morbid self-examination, acute consciousness of self.
- 11. Guilt and shame feelings, sin feelings, feelings of self-condemnation, suicidal tendencies, discouragement.
- 12. Disturbances of various aspects of the selfesteem complex, e.g.,
 craving for power and
 for status, compulsive
 ambition, over-agression,
 hunger for money, prestige, glory, possessiveness, jealousy of jurisdiction and prerogative,
 overcompetitiveness and/or
 the opposite; masochistic
 tendencies, over-dependence, compulsive submissiveness, ingratiation,

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- 8. Tondency to be happy or content.
- 9. Feelings of calm, easo, and relaxation; unconflicted; emotional stability.

- 10. Tendency to outgoingnoss; ability to be
 world-, object-, or
 problem-centered rather
 than self- or egocentered.
- 11. Self-acceptance, tolerance of self, acceptance of the impulses.
- 12. Desire for strength or adequacy with respect to problems rather than for power over other people; firm, positive, well based self-esteem; feeling of strength; courage.

inferiority feelings, feelings of weakness and holplessness.

- 13. Continual striving for and hunger for safety and security; various neurotic trends, inhibitions, defensiveness, escape trends, ameliorative trends, false goals, fixations on partial goals; psychotic tendencies, delusions, hallucinations, etc.
- 13. Relative lack of neurotic or psychotic tendencies; realistic coping systems.

- 14. Selfish, egocentric, individualistic trends.
- 14. "Social interest" (in Adlerian sense); cooperativeness, kindliness, interest in others; sympathy.

The term "junior college" is used synonymously with "community college" in this study and refers to post-high school public two-year institutions that function, at



A. H. Maslow, "The Dynamics of Psychological Security-Insecurity," Character and Personality, 10:334-335 (1942).

¹⁶ Horace B. English and Ava C. English, A Comprehensive Dictionary of Psychological and Psychoanalytical Terms, p. 338.

least in part, as a service to their community.

The term "Transfer student" in this study is defined as the student enrolled in a junior college for the
purpose of attaining sufficient credits for transfer to
a four-year institution and the completion of a Baccalaureate. At Illinois Central College, the transfer student
is enrolled in curriculums designated in Table 2 by three
consecutive digits, the series beginning with zero, e.g.,
010 and 090.

The term "Terminal student" refers to those students who do not expect to continue their formal full-time collegiate training beyond the junior college. 17 Terminal students at Illinois Central College are enrolled in curriculums designated in Table 2 by three consecutive digits, the series beginning with a number other than zero, e.g., 110 and 900.

"Night students" in this study are those students attending classes at Illinois Central College from 5:30 P.M. till 10:00 P.M. only,

"Day students" are those students at Illinois Central College attending classes from 8:00 A.M. till 5:00 P.M., plus those whose classes are scheduled both



¹⁷ Leland L. Medsker, The Junior College: Progress and Prospect, p. 7.

TABLE 2
CURRICULUMS AT ILLINOIS CENTRAL COLLEGE

	Transfer (Curri	oulws
010		070	Pro-Medicine
020	Architecture and Art	071	Pre-Pharmacy
030	Business Administration	072	Pre-Dental
oko	and Commorco	073	Pro-Veterinary
050		074	Pro-Nursing
060		075	St. Francis Hospital
	Liberal Arts and Sciences	090	General Studies
	Torninal C	urric	culums
100	Agriculture Business	330	Pagi granci Nume
101	Agriculture Production	401	
	and Management	400	Technology
200	Accounting	4:02	Engine Power Technology
205	Commorcial Art	403	Chemical Technology
210	Businoss Managemont	404	Data Processing
215			Technology
570	Medical Secretarial	405	Electronics Engineering
217	Logal Socretarial		Technology
218	Executive Secretarial	406	Industrial Electronics
219	Co-operative Office	1	Technology
220	Education Machine	420	Machanical Technology
LLU	Office Machines and Procedures	HII	Machine Design
221	Clork Typist	412	Manufacturing
301		413	Internal Combustion
J ** **	Assistant	1,20	Engines
310	Physical Therapy	420	Industrial Drafting
<i></i>	Assistant	430	Technology
320	Medical	601	Auto Mechanica
J === V	Record Technician		Police Administration
	The second secon	700	Continuing Education



during the day and evening sessions.

The term "Agriculture student" refers to students enrolled at Illinois Central College in curriculums OlO, 100 and 101.

"Basiness student" in this study means those students enrolled in curriculums 030, 200, 210, 215, 216, 217, 218, 219, and 221.

The term "Health student" includes all students at Illinois Central College enrolled in curriculums 070, 071, 072, 073, 074, 075, 301, 310, 320, and 330.

"Technical student" refers to all Illinois Central College students enrolled in curriculums 401, 402, 403, 405, 406, 410, 411, 412, 413, 420, 430, and 601.

Limitations of the Study

This study is restricted to an examination of psychological security-insecurity as measured by Maslow's S-I Inventory. Although lip subdefinitions are included in the syndrome of security-insecurity as subsyndromes, the S-I Inventory yields only a single score. Thus, results of this study reflect security-insecurity only at the syndrome level. No information on feelings of students within subsyndromes is available from this study.

The study might best have been conducted earlier in the school year than it was. Data collection dates



were April 16, 17 and 18, 1969, after the last date in the second semester for students to withdraw from classes because of failing grades. The researcher assumes some of the first semester students who were very insecure left and did not enroll for second semester classes. Also, some per cent of second semester students had withdrawn or left by the time data was collected. This study may have, therefore, been conducted at a time when only the most psychologically secure students of the school year were left on campus.

The use of a self-report test to reveal basic needs that are theorized as largely unconscious may be a limitation of this study. 18 The self-report design of Maslow's S-I Inventory seems to contradict his theory, and yet the construction of this instrument was determined by the ability of each item to discriminate between those who were clinically judged by Maslow and others to be insecure and secure. 19 This procedure suggests that unconscious motivations may influence conscious awareness of feelings,

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¹⁸A. H. Maslow, "A Theory of Human Motivation," Psychological Review, 50:389 (July, 1943).

¹⁹A. H. Maslow and others, "A Clinically Derived Test for Measuring Psychological Security-Insecurity," The Journal of General Psychology, 33:22-24 (July, 1945).

and that the S-I Inventory may be measuring the largely unconscious basic need of psychological security. However, it is more likely that the S-I Inventory only measures conscious feelings. This study may, therefore, not reflect information concerning important unconscious determinants of psychological security-insecurity.



CHAPTER II

REVIEW OF RELATED LITERATURE

Need for Rosearch

Few studies have researched personality characteristics of junior college students. Cross (1968) concludes such research "is very scanty indeed." Butler (1968), after reviewing available literature, writes that he found no research studying needs of junior college students. Blocker and Plummer (1965), and Moomaw (1967) point out that most studies describe various intellectual factors, e.g. test scores and grade point average, of junior college students. Rousche (1967) writes that the typical institutional research study has been concerned only with the transfer student who leaves the junior college in pursuit



Research Description, p. 51.

²Robert R. Butler, <u>Differences in Need Press Variables as Perceived by University and Junior College Students</u>, Research in Education ED 023 386, p. 3 (1968).

³Clyde E. Blocker and Robert H. Plummer, The Two-Year College: A Social Synthesis, p. 106.

Robert Clayton Mcomaw, "Need Press Differences Among Community College Students," Unpublished doctoral dissertation, Chio State University, 1967, p. 9.

of the B.A. degree. The search of literature made by this author confirm the observations of these writers.

Research on personality characteristics of junior college students is needed for junior colleges to become truly effective student-centered institutions. Plans and decisions of junior college staff should, as normative practice, be based on as complete knowledge as possible of student personality needs and characteristics. That such has not been the case is dramatically implied by the dearth of research in this area.

It seems clear that the junior college student is different in many ways than the typical student attending a four-year institution. The junior college student is less able academically, comes generally from a lower socioeconomic background, and is part of a more heterogeneous student body, than his counterpart in four-year colleges and universities. It does not seem wise to use research performed outside the junior college as a basis for decisions affecting students within the junior college.

Finally, research should study all members of the junior college population. Medsker writes that "programs



John E. Roueche, "Gaps and Overlaps in Institutional Research," Junior College Journal, 38:21 (November, 1967).

and services are planned for full-time, day students and the assumption is usually made that what is good for them will be good for all others." Research on personality needs and characteristics of all students of the junior college, e.g. night students, should be conducted to test the validity of this assumption.

Scope of the Review

Review of literature for this study includes three areas of concern relevant to understanding security—insecurity needs of junior college students. First, the theoretical foundations of security—insecurity will be reviewed. The second area concerns studies conducted on junior college populations for the purpose of researching security—insecurity needs. Research with implications for any of the 14 subsyndrome definitions of security—insecurity will be reviewed. The last area of concern reviews research studies that have used Maslow's Security—Insecurity Inventory as instrumentation.



⁶ Leland L. Medsker, "The Junior College Student," in Report to Carnegie Corporation, November, 1965, Junior College Student Personnel Programs: Appraisal and Development, p. 24.

Theoretical Foundations of Security-Inscentity

psychological security as found in the theories of Sullivan, May, Rokeach, and Maslow. The most comprehensive treatment of security-insecurity feelings is presented by Maslow. His theory is, therefore, presented last.

Security is an important concept in Sullivan's interpersonal theory. When the usual pattern of interpersonal exchanges is disrupted, tension and anxiety result. Activities performed to dispel this tension and anxiety are termed by Sullivan, "security operations." These operations seek to restore a feeling of safety and self-esteem to the person, and they "always interfere with whatever other tensions and energy transformations they happen to coincide with."?

Anxiety, an undifferentiated and diffuse feeling, is seen by May as threatening the security base forming the core or essence of personality. Anxiety results when



⁷Harry Stack Sullivan, The Interpersonal Theory of Psychiatry, p. 373.

⁸Rollo May, The Meaning of Anxiety, pp. 191-193.

values essential to this security base, or pattern, are threatened. If the person chooses a nemproductive, negative way of coping with this amxiety, his thinking may become more dogmatic and rigid, and generally he will have a lessened capacity for self-awareness.

Part of Rokeach's Open and Closed Belief System is a characteristic of the central-peripheral dimension similar to Maslow's fourth subsyndrome of security-insecurity. For Rokeach, the open mind sees the world as essentially friendly, while the closed mind perceives the world as a threatening place. 10 The person who is closed, acts to remove this threat and to allay feelings of anxiety. This need to defend against threat is one of two motives proposed by Rokeach; the other is the need to know. The relatively closed person may protect against threat by rejecting anxiety creating information. At the same time, the illusion is created that whatever information is allowed into the belief system satisfies the need to know and understand. Both needs are, therefore, satisfied, and the closed mind perpetuates itself.11



^{9&}lt;sub>Pp</sub>. 224-225.

¹⁰ Milton Rolmach, The Open and Closed Mind, p. 56.
11 Pp. 68-70.

Foolings of socurity are grouped into different levels of generalization by Maslow. He terms his concept of security-feelings a syndrome, and defines a syndrome as "a general flavor which can be detected or savored in practically everything that the person does, feels, or thinks."

The syndrome obeys laws of its own that are not necessarily the same as those laws governing the parts making up the syndrome. The totality of various personality syndromes tends to be integrated and each may be reflected in any single behavioral response.

As John Dos laughs and responds to a joke, we can theoretically tesse out from among the various determinants of this unitary act, his security level, his self-esteem, his energy, his intelligence, etc. 13

Studies performed at the syndrome level are referred to by Maslow as studies at the first level of magnification; studies performed on subsyndromes, e.g., the craving for power subsyndrome of the security-insecurity syndrome, it are studies at the second level of magnification; and



¹²A. H. Maslow, "The Dynamics of Psychological Security-Insecurity," Character and Personality, 10:331 (1942). (Hereafter "Security-Insecurity")

¹³A. H. Maslow, "Dynamics of Personality Organization," The Psychological Roview, 50:549 (November, 1943). (Hereafter "Personality")

¹⁴ Maslow, "Security-Insocurity," p. 335.

studies performed on ways a subsyndrome may be expressed, e.g., a hungering for money, are studies at the third level of magnification. 15

Maslow theorizes five basic needs arranged in a hierarchy according to their prepotency: (1) physiological needs, (2) safety needs, (3) love needs, (4) esteem needs, and (5) self-actualization needs. ¹⁶ As lower order needs are satisfied, needs at the next level in the hierarchy gain in potency and press for satisfaction. The emergence of a need into a position of potency comes about gradually as an increasing per cent of the need immediately below it is satisfied. The organism's need for safety, for example, would have to be 75 per cent satisfied before the needs next in the hierarchy, love needs, may 90 per cent emerge. ¹⁷ Most needs are never fully satisfied, and behavior may be an expression of several needs simultaneously being felt in varying per cents of potency.

Although the definition of the security syndrome contains a reference to the need for love (subsyndrome 1)



¹⁵ Maslow, "Personality," p. 543.

¹⁶A. H. Maslow, "A Theory of Human Motivation," Psychological Review, 50:394 (July, 1943). (Hereafter "Theory")

^{17&}lt;sub>Pp</sub>. 388-389.

and self-esteem (subsyndrome 12), this syndrome is prepotent primarily within the safety need level of the hierarchy. 18 If the security needs are well satisfied early in life, the individual may not be motivated primarily by safety needs except in times of emergencies, such as war or societal disorganization. Otherwise, usually only in the neurotic and near-neurotic individual, or in the economic and social underdog, will an expression of the security needs be clearly seen. 19 The compulsive-obsessive neurotic provides the best example of behavior to satisfy security needs in his frantic attempts to "order and stabilize the world so that no unmanageable, unexpected, or unfamiliar dangers will ever appear. 120

Maslow identifies 15 reactions of insecure persons that are expressions of the security-insecurity syndrome:

- 1. In every insecure person with whom the writer has worked he has always found a continual, never dying longing for security.
- 2. Almost continual action toward regaining this individually defined security was

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¹⁸ Maslow, "Security-Insecurity," pp. 334-335.

¹⁹ Maslow, "Theory," pp. 378-379.

²⁰P. 379.

found in all cases.

- 3. Discouragement reactions may be a response . . . to anything . . . that drives home the realization of rejection, being hated, loss of love, etc.
- 4. Revenge reactions for love already lost or for a threatened loss [may be found].
- 5. Defense reactions to prevent further loss of love [may be found].
- 6. Ameliorative reactions to make the bad situation more bearable [may be found].
- 7. Attack reactions upon the situations which bring about the insecurity in the attempt to change or improve them [may be found].
- 8. The underwining of self-esteem [may be found].
- 9. The insecure person will tend always to hide from himself as long as possible the conscious realization of rejection, of loss of love and respect.
- 10. Other processes that perpetuate the adjustment or the life style [will also reflect the person's insecurity].
- 11. The effects of all of these reactions on other people serve further to perpetuate and to re-enforce the insecurity.
- 12. Limiting the base of security (or safety) [may be found].
- 13. Neurotic exaggeration of the drive for security [may be found].
- 14. The setting up of habits that may outlive their original functions [may be found].



15. The tendency to defend the system of defenses [may be found].21

These reactions are interpreted by the writer to be at the third level of magnification. Such behavior as may be expressive of any of these 15 emerge, according to Maslow's theory, when the need for psychological security becomes relatively propotent over other needs in the hierarchy.

Studies of Security-Insecurity of Junior College Students

This researcher found no studies of securityinsecurity of junior college students. Only a few studies
were found with even tangential relationships to the
problems of security-insecurity. While it is difficult
to draw implications from such peripheral studies, they
are reviewed in this section for whatever value they may
have in gaining a better understanding of securityinsecurity problems in the junior college.

Psychological insecurity in general mathematics remodial students is suggested by research identifying their significant characteristics as:

- 1. A dislike for and lack of confidence in handling mathematics;
- 2. An approach to testing characterized by nonflexible organization;



²¹ Maslow, "Security-Insocurity," pp. 336-342.

- 3. Emotional disturbances associated with awareness of personal inadequacy;
- 4. Lack of self-confidence in relations with instructors;
- 5. A prevalent prediction of unfavorable outcomes for self and peers in school situations.22

The third characteristic listed is probably the most important finding for purposes of this review; all five points, however, are presented to give a fuller picture of this kind of junior college student.

Cross summarizes Warren's study as representative of the description of personality characteristics of junior college students that seems to be emerging. In comparison to students at a private college, "junior college students were the most cautious, prudent, and controlled, most apprehensive and rigid in their concerns over grades and academic standing."23 The implication is that junior college students may be more insecure than four-year college students.



²² Research Problems in Mathematics Education.
Cooperative Research Monograph No. 3, p. 16 (1960),
quoted by John E. Roueche, Salvage, Redirection, or Custody?, Monograph of the ERIC Clearinghouse for Junior College Information, American Association of Junior Colleges, 1968, p. 14.

^{23&}lt;sub>Cross</sub>, p. 33.

Part of the suggested greater insecurity of junior college students may be due to lack of opportunities for development of confidence within the junior college environment. Butler found that students responding to Stern's College Characteristics Index saw the junior college "as providing less opportunity for activities in which students are encouraged to develop leadership and self-assurance."24

Data presented by Panos suggests that students entering the junior college are insecure concerning their academic abilities. In Panos' study, 6,860 entering students of 7 junior colleges rated themselves on intellectual self-confidence. Students from these colleges who rated themselves above average in self-confidence ranged from a high of 33.1 per cent at one college to a low of 12.3 per cent at another.25

Risk-taking preference was a part of research done by Stewart. In Stewart's study, several items were classified as to degree of risk involved, e.g. the subject was asked if he would sacrifice high wages in return for

²⁴Butler, pp. 5-6.

²⁵Robert J. Panos, Some Characteristics of Junior College Students, American Council on Education Report Number ACE-RR-Vol-No-2-1966, p. 17.

assurance he would not lose his job, or if he would rather have high pay in a job where the risk of losing all was high. Females were found by Stewart to prefer the low risk job; responses of males revealed no conclusive pattern. Inferences concerning sex differences in psychological security-insecurity cannot, however, be made with confidence as Stewart points cut that "women may perceive a ready source of steady income as a realistic consideration in view of possible future plans for marriage and family."26

Studios Using the S-I Inventory

Studies using the S-I Inventory can be grouped into two categories: (1) research with implications for the validity of the instrument, and (2) studies providing information concerning the characteristics of secure and insecure persons.

Hanawalt predicted girls in a correctional home and persons in a school for the deaf would be psychologically insecure. When he tested these groups using the S-I Inventory, Hanawalt found both to be insecure as



²⁶ Lawrence H. Stewart, Characteristics of Junior College Students in Occupationally Oriented Curricula, University of California Report No. R-1965-1, pp. 13-14.

prodicted. 27 Hanawalt also studied validity of the S-I Inventory by asking six girls who were advanced psychology majors and who had met together as a class for two semesters to rate each other on security-insecurity. A correlation of .80 was found between self-rating of the girls and test scores on the S-I Inventory. 28

A comparison was made between the Minnesota Multiphasic Personality Inventory (MMPI) and the S-I Inventory
by Mehlman and Kaplan to see if these two instruments
would similarly group healthy students as healthy, and
less than healthy students as non-healthy. These authors
found the S-I Inventory and the MMPI to discriminate between healthy and unhealthy "individuals in a comparable
fashion."29

The S-I Inventory was given to 260 high school seniors from a midwestern city of approximately 25,000 by Gough. Scores were found to be unrelated to intelligence, academic performance, or socioeconomic level of subjects.



²⁷Nelson G. Hanawalt, (review of the S-I Inventory), in Oscar K. Buros, ed., Tho Fifth Mental Measurements Yearbook, p. 107.

^{28&}lt;sub>P</sub>. 107.

²⁹ Benjamin Mehlman and Janice E. Kaplan, "A Comparison of Some Concepts of Mental Health," Journal of Clinical Psychology, 14:122 (April, 1958).

The S-I Inventory was found, however, to be related to some scales on the MMPI. Gough writes:

Cortain sex differences in the corrolations indicated that hypochenoriacal complaints play a more preminent role in the security and insecurity of girls than of boys, and that feminine tendencies in boys have graver social consequences than masculine tendencies in girls.30

Muench questions the validity of the S-I Inventory. When S-I Inventory scores before and after psychotherapy were compared to therapists' judgments of client progress, little agreement was found. Muench concludes either the S-I Inventory does not measure what it should, or the judgments of therapists are inaccurate. 31

Several studies give insights into characteristics of secure and insecure persons. Bennett and Jordan found that secure persons are more impunitive than insecure individuals, while insecure persons are more extrapunitive; secure and insecure groups did not differ on intropunitiveness.³² Hanawalt correlated the S-I Inventory with

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³⁰Harrison G. Gough, "A Note on the Security-Insecurity Test," <u>Journal of Social Psychology</u>, 28:261 (November, 1948).

³¹George A. Muench, "An Investigation of Time-Limited Psychothorapy," Journal of Counseling Psychology, 12:296-297 (Fall, 1965).

³² Carson M. Bennott and Thomas E. Jordan, "Security-Insecurity and the Direction of Aggressive Responses to Frustration," <u>Journal of Clinical Psychology</u>, 14:166-167 (April, 1958).

the Pressey Interest-Attitude Test and concludes, "apparently, emotionally immature as well as mature people can feel secure."33

A rank order correlation technique was applied by Ferrara and Milofsky to S-I Inventory scores and the degree of reduction in contradictory information. A correlation significant at the .05 level was found and Ferrara and Milofsky, interpreting their result, write that "the insecure individual who experiences greater stress . . . has a greater need to escape from cognitive dissonance, even if this escape requires the suppression of information." 34

Gill and others placed 249 college juniors and seniors into three groups on the basis of S-I Inventory scores: (1) secure, (2) average, and (3) insecure, students. These groups then took Rokeach's Dogmatism Scale (Form E), and Thurstone's Closure Flexibility Scale. In addition, grade point average data was obtained as an indication of academic ability. Gill and others write of the interesting differences found:



^{33&}lt;sub>Henewalt</sub>, p. 107.

Manthony J. Ferrara end Charles A. Milofsky, "Insecurity as a Factor in the Resolution of Contradiction," Psychological Reports, 14:790 (June, 1964).

Groups demonstrating a high degree of security not only tend to think more gonly but as a group are more effective acalemically. This is more true for girls than boys. It appears at least up to a certain point that how secure an individual feels may be a direct indication of his effectiveness as a person and thus his academic ability.

Summary of Literature Roview

The review of literature related to psychological security-insecurity reveals several important points.

First, several theorists use psychological security as an important part of their theories of motivation and personality. These are Sullivan, May, Rokeach, and Maslow. Of these theorists, Maslow treats psychological security-insecurity in the greatest detail and most extensively. Although these theorists differ from one another, all express the common view that psychological insecurity tends to act as a motivating force causing undesirable behavior. For May and Rokeach, the person is likely to be dogmatic if he is insecure; for Sullivan and Maslow, insecurity beyond some point tends to dominate behavior and the person will act to satisfy his security needs.



³⁵ Newell T. Gill and others, The Effect of Security as an Independent Variable on Solected Variables Rolated to Perception, Cognition, and Academic Achievement, Research in Education ED 011 796, p. 19 (September, 1966).

That studies of psychological security-insecurity of junior college students are not available is the second point of this summary.

Third, few studies of personality characteristics of junior college students have any implications to offer concerning the security-insecurity of these students. Those that do have implications seem to be showing that junior college students as a group may be somewhat insecure. When compared to students in four-year institutions, junior college students may be more insecure.

Fourth, few studies have been published using the S-I Inventory as instrumentation. Those found by this researcher suggest the instrument may be valid and may agree with the MMPI in important ways. Also, research studies suggest the insecure person is more rigid and dogmatic in his thinking than the secure person, and is less academically able, as well.

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CHAPTER III DESCRIPTION OF RESEARCH PROCEDURES

Population and Samples

Population

Junior college students of Illinois Central College, East Peoria, Illinois, who were enrolled for the second semester of the 1958-69 school year, served as the population for this study. Illinois Central College serves District #514, a public junior college Class I district in central Illinois composed of Peoria, Tazewell, Woodford, Marshall, and McLean Counties. The combined population of these five counties is approximately 330,000.

Illinois Central College was selected for this study because of the convenience of its proximity to Illinois State University, and because of the combination of both rural and urban areas within District #514.

Illinois' third largest city, Peoria, is located within a few miles of ICC. The population of Peoria and the towns nearby represents slightly more than one-third of the total population in District #514. In addition to being a major river, rail, air, and truck terminal for Illinois, Peoria has industries that include beverage distilling, and the manufacturing of farm machinery,



air-conditioning and heating equipment, diesel engines, earth-moving equipment, and many others. Urban population centers in District #514 also include Bloomington in McLean County, and Pekin in Tazewell County.

Illinois Central College serves a large rural area throughout its five counties. Farming is the major industry in the rural area with corn, soybeans, wheat, oats and hay leading crops, and beef and pork leaders in meat production.

It was the hope of the researcher that the combination of students from both rural and urban backgrounds
would more likely provide information concerning
psychological security-insecurity that could be generalized in whole or in part, to many other junior colleges.

It was felt that a study conducted at Illinois Central
College might be of more value than a similar study conducted solely on an urban or exclusively rural, junior
college. The representation of both urban and rural
groups in the student body is suggested by the listing of
new students enrolled during the Fall Semester, 1968, by
high school attended, as shown by Table 3 below. Although
both urban and rural groups are represented at ICC, "the
large majority of students commute from urban communities

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lRay E. Howser, "Peoria," Encyclopedia Americana, 1963, vol. 21, pp. 559-560.

TABLE 3
NEW STUDENTS AT ICC FALL SEMESTER 1968-69
BY HIGH SCHOOL ATTENDED®

Figh School	Number of New Students	
Pekin Community High School	178	
Richwoods Community High School	142	
Peoria High School	138	
East Peoria High School	126	
Manual High School	117	
Limestono Community High School	95	
Washington Community High School	84	
Woodruff High School	79	
Spalding Institute	64.	
Academy of Our Lady	5 3	
bMetamora Township High School	47	
Bergan High School	39	
Morton Community High School	35	
bChillicothe Community High School	33	
Paureka High School	25	
DRoanoke-Benson High School	19	
Tremont High School	17	
Elmwood Community High School	15	
Deer Creek-Mackinaw High School	15	
Dunlan Township High School	14.	
Farmington Community High School	13	
Princeville Community High School	13	
TEL Paso High School	11	
Drimber Township High School	8	
bBrimfield Community High School	6	

A"Illinois Central College Student Body Ovorview Information," mimeo compiled by Student Personnel Services Staff, Illinois Central College, April 16, 1969, p. 2.

bIndicates schools that may be considered as located in predominantly rural areas.



of over ten thousand population."2

Descriptive data other than enrollment figures for the ICC student population Second Semester, 1968-69, are not available. A descriptive analysis of the student body is available, however, for the Spring Semester, 1968, as well as the age distribution of students for the Fall Semester, 1968-69. The assumption is made that the data furnished up to a year earlier than the date the study was completed is descriptive of the population enrolled Second Semester, 1968-69.

The age distribution of ICC students follows in Table 4. Excluding the category of unknown students (N = 200), 45 per cent of ICC students are between the ages of 16 and 19; 40 per cent are between the ages of 20 and 29; and 15 per cent are age 30 or older. The average age probably lies in the interval 20-29.

Twice as many men as women attend Illinois Central College. 3 During the Spring Semester, 1968, the ratio of freshmen male students to freshmen female students was



²Glenn Roberson, "A Descriptive Analysis of Illinois Central's Student Body Spring Semester 1968," p. 3. Unpublished manuscript.

³Illinois Central College, Student Personnel Sorvices: The Vital Link, p. 13.

TABLE L AGE DISTRIBUTION OF ICC STUDENTS FALL SEMESTER 1968-69²

Ago	Frequency	
16-17 18 19 20-29 30-39 40-49 50-59	8 991 736 1,527 380 159	
69-0ver Unknown	200	
Total Enrolled	ų , 038	

an Illinois Central College Student Body Overview Information," mimeo compiled by Student Personnel Services Staff, Illinois Central College, April 16, 1969, p. 9.

"slightly under two to one." The ratios of all male students to female students by day and evening attendance were 3:1 to 3:2, respectively.

Most students at Illinois Central College are single. Thirty-eight per cent of all students in 1968



⁴Roberson, p. 3.

^{5&}lt;sub>p. 3</sub>.

were married, with a large difference noted between day and night students. Of the day students, only 13 per cent were married while 68 per cent of the night students were married.

The student body comes predominantly from stable, middle class homes. Eighty-seven per cent of students reported both parents reside at home while 13 per cent said one or both parents were deceased. Only 7 per cent of heads of students, households are from prefessional vocations, 5 per cent are unskilled workers, and "the great majority of students, parents, or spouses are employed in the managerial, clorical, sales, skilled and semi-skilled occupations." Fifteen per cent of students, parents had attended school less than eight years, 50 per cent had finished at least one year of high school, and approximately 20 per cent of "family heads had attended at least one semester or quarter of college."

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^{6&}lt;sub>P. 4</sub>.

^{7&}lt;sub>P. 7</sub>.

^{8&}lt;sub>P</sub>. 7.

⁹p. 7.

Approximately 30 per cent of all students are transfer students, 10 70 per cent of whom came from the University of Illinois, Illinois State University, Western University, Bradley University, or Canton Junior College. 11 Of the entire student body, approximately 96 per cent reside inside District #514.12

Illinois Central College students enjoyed average success in their academic work in high school. Their "college test scores are above average for high school seniors, but below average for four-year college freshmen." The Composite ACT Score, when compared to other junior colleges, is two percentile points lower with a relative weakness in mathematics indicated. It

Many ICC students desire to enter the professions, and a majority plan to transfer to a four-year institution for completion of a Baccalaureate. Students' vocational choices tend to be unrealistic, often expressing status



¹⁰p. 5.

^{11&}lt;sub>P. 9</sub>.

^{12&}lt;sub>P</sub>. 9.

¹³Illinois Central College, p. 14.

Machorson, p. 5.

values and not real interests. 15

Enrollment figures by curriculum number and schedule type for all students enrolled at Illinois Central College Second Semester, 1968-69, are given in Table 5 below. The total number of students enrolled is 3,347.

In summary, the population chosen for this study is hoterogeneous in age, marital status, sex, type high school attended, and enrollment choices. These factors indicate that Illinois Central College students are typical of students in many other junior colleges. Heterogeneity of socioeconomic background was also indicated, although more ICC students may come from the middle class than at other junior colleges. Clark, for example, found in a sample (N = 95) of San Jose Junior College students, that 23 per cent came from homes whore the student's father was an upper white-collar worker, 60 per cent from homes of lower white-collar and upper blue-collar workers, and the remainder, 17 per cent, from homes where the father was a lower blue-collar worker. 16 Apparently, more San Jose Junior College students than ICC students come from the extreme upper and lower categories. A more complete



¹⁵Illinois Central College, p. 14.

¹⁶ Burton R. Clark, The Open Door College: A Caso Study, p. 54.

TABLE 5 ILLINOIS CHIMAL COLINGI AMBOLIMENT SECOND SEMINLIN, 1966-69

Cutcleulum	Day	Evening	Total
010	20	3	22
020	21		21 21:
039	232	ر . الروان	170
c <u>t</u> ;o	21); 53	1.3 2.3	262
050	53	÷ Š	
იმი	325	3:2	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
670		- Ç	262 64: 363 132
090	4,86	రక్ర	552
100	36	0	35
200	36 50	27	69
210	17.	25	<u>zki</u> .
221	→	-	
301	9	ō	7 9
310	9	aP	20
320	63	ð	7
330	38	<u>Į</u>	i.c
1,01 1,10	203	li, 63	208
1:10	27	20	57
03.4	15	j	15
430	01 1 100	O	Ĩ.
<u> </u>	5	· D	10
601	13	` <u>.</u> 5	16
900	146	.932	1,078

study should be conducted, however, before definite conclusions are drum. Academic ability is also a teresonecus, although the overall ability level may be ulightly lever than at other junior colleges.



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A bobol of 400 students to soluted from the total population representing services of: (1) the everall, general population; (2) Business students; (3) Agriculture students; (4) Technical students; (5) Health students; (6) Wight Transfer students; (7) Wight Terminal students; (8) Day Transfer students; and (9) Day Terminal students. The ther specifications of samples may be found under Sampling Presedums.

Scroling Procedure

Machine records print-out shoots were furnished by Illinois Central College. These shoots contained the names of all students carelled at the beginning of the second semester, 1968-69, within the sampling areas listed in Samples above.

An identical procedure was followed for the solvetion of samples from each print-out shoot. First, each name was assigned an identification number within a series appropriate to the total number of names on the shoot. For example, the general population print-out listed 3.347 names; accordingly, these names were as against the



identification on bors 0001 through 1577. Second, a row and column starting point in a table of period mumbers was arbitrarily chosen. Third, identification numbers with the starting point and reading vertically down the table. When the bottom of the table was reached, mumbers were chosen in a similar member beginning at the top of the table with the column immediately to the right of the starting point. This procedure was continued until the number of identification numbers leading had been selected without duplication. The identification numbers on the print-out shoets and the students, names adjacent to the identification numbers on the print-out shoets and the students, names adjacent to the identification numbers or the print-out shoets and the students, names adjacent to the identification numbers or the print-out shoets and the students, names adjacent to the

Duplications were expected along attaches are simultaneously members of the everall, general population, of a given schedule type and surpleulum type, e.g. Night Transfer, and perhaps also of one of the four meadomic areas chosen. Thirteen duplications resulted from drawing 400 identification numbers from the table

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^{175.} G. Position and R. Schuler, "A first of Fandem Numbers from Solective Service ... bors," I get less Priviolegy, 11:296-297 (1942) reprinted In V. Tate, Statistics in Lineation, pp. 768-569.

of random numbers. The total number of students invited to participate in the study was, therefore, 387.

A letter of invitation was sent on April 9, 1969, to each student randomly selected for the nine sample groups. A postcard reminder was also sent each student on April 12, 1969. Examples of the letter of invitation and the reminder postcard are included as Appendix A and Appendix B, respectively.

Maslow's Security-Insecurity Inventory was administered to students April 16 through 19, 1969, in the College Room of the Illinois Central College Student Students reported initially to the counseling Union. offices where they were directed to the College Room. the College Room, students identified themselves to the researcher and were given an instrument package consisting of directions, nine questions asking for descriptive information, and the S-I Inventory. The package was designed to be self-administering so that students could participate in the study whenever they had free time. Students were instructed where to begin in the package and to use as much time as they felt was needed in order to give accurate answers. As estimated in the invitation lotter, 15 to 20 minutes was required, on the average,



to ensur all questions. A complete instrument package is contained in this striy as Appendix C.

Provision for Tost Interpretation

observed. Students were instructed not to affix their name on any portion of the instrument package. A small card attached to the package listed the name and Survey Identification Number assigned each subject of the study. Students were to remove these eards and keep them when leaving the testing room. If a student subsequently desired a test interpretation, he was to report to the Illinois Central College counseling offices and give his counselor the card listing his name and Survey Identification Number. The counselor then requested the research send the questionnaire with corresponding number so that the requested test interpretation could be conducted.

It is of interest that only throe students requested test interpretations. One of the three, however, as a result of the interpretation interview, was referred to a nearby mental health clinic to receive psychological help.

The Security-Insecurity Inventory

Purpose

The purpose of the Security-Insecurity Inventory is to measure inner, conscious feelings of psychological





ensurers to questions related to the subsyndromes of the cocurity-insecurity syndrome, this instrument provides a numerical index indicating the degree of internal balance within a person between the poles of psychological security and insecurity. The higher the score, the more insecure a person is; the lower, the more secure one feels.

Since psychological security is one of the determinants of mental health, if not synonymous with it,

Maslew suggests the S-I Inventory be used as a screening device with large populations. Individuals with "neurotic" symptoms but with moderate scores on the S-I

Inventory are likely suffering from situational problems rather than severe neurosis or personality disorders. 19

These are persons who may benefit from counseling within the junior college. Students, however, with extremely high scores on the S-I Inventory may have psychological problems too serious for counseling by junior college counseling staff. These insecure students might best be

¹⁸A. H. Maslow and others, Manual for the Security-Insecurity Inventory, n.p. (Mercafter Manual)

¹⁹A. H. Maslow and others, "A Clinically Derived Test for Measuring Psychological Security-Insecurity," The Journal of General Psychology, 33:37 (July, 1945).

considered for referral to a mental health agency outside the college where more highly trained help is available, and where the program design may accommodate serious personality problems.

The primary use of the test is intended by Maslow to be "with large groups, whether for various types of research, for survey purposes in any given population, or for comparison of populations." The S-I Inventory is not designed or intended to be used as a tool of individual diagnosis, and Maslow warns against using it as a substitute for clinically studying the individual. Reliability

Because feelings of security change with time, reliability calculations utilizing internal consistency techniques are seen by Maslow as more appropriate than test-retest methods. Utilizing the split-halves, add-even method, a reliability of .86 was obtained; splitting the form with approximately equal representation from each subsyndrome in the halves resulted in a .91 reliability coefficient. Pages one, two, and three, when correlated with the total score, produced reliability coefficients

^{20&}lt;sub>P. 37</sub>.

^{21&}lt;sub>P. 38</sub>.

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of .92, .91, and .92, respectively.²² All these coefficients indicate that the S-I Inventory is an instrument of high internal consistency reliability.

Validity

A validity coefficient of approximately .90 is claimed by Maslow.23 A threefold argument is used to support this claim. First, clinical studies of known socure and insecure clients provided original and subsequent data for validity of test items. An item analysis tochnique was also utilized to ensure only those items that discriminated well were retained. Content validity was assured throughout test construction by adhering closely to the definitions of subsyndromes of securityinsecurity. Secondly, the test was given to students who served as the criterion for concurrent validation through reporting how well they thought the test had estimated their feelings of security. This method of validation is the only evidence of predictive validity given by Maslow. Eighty-eight per cont reported the S-I Inventory to be fairly or extremely accurate in estimating levels of

²² Maslow and others, Manual, n.p.

²³ Maslow and others, "Test," p. 29.

security. Third, over a period of five years or longer, Maslow examined construct validity by comparing test scores with kind and seriousness of client problems. High agreement was found between test scores and types of psychological problems.

Webster, roviewing the S-I Inventory in Bures'
Fifth Mental Measurements Yearbook writes:

It may be said immediately that it is doubtful that there are other personality tests the authors of which have exercised such great care to ensure item validity. The test can be recommended without reservations as a valid measure of security-insecurity, as this trait is described by the authors.

Hanawalt, another reviewer in Buros' book, is critical of the lack of predictive validity studies, but concludes, "the validity is as good as can be expected."27

The S-I Inventory is likely particularly valid for use with junior college populations because the validation studies were conducted with college students generally

²⁴p. 29.

²⁵Pp. 29-33.

²⁶ Harold Webster, (review of the S-I Inventory), in Oscar K. Buros, ed., The Fifth Mental Measurements Yearbook, pp. 107-108.

²⁷Nelson G. Hanawalt, (review of the S-I Inventory), in Oscar K. Buros, ed., The Fifth Mental Measurements Yearbook, p. 107.

between the ages of 17 and 23. Illinois Central College, however, like many other junior colleges, has an extremely heterogenous age distribution, and the use of the S-I Inventory for all students in the population may be questioned. Further study is indicated before the instrument can be endorsed without qualification for junior college use.

Design of Study

The problem of this study was translated into two major questions: (1) how are feelings of psychological security-insecurity distributed generally throughout the entire population of Illinois Central College students; and (2) are there any differences in feelings of psychological security-insecurity among various groups within the overall population? These two questions were restated in mull hypothesis form and the sample data was statistically analyzed to determine the significance of any differences found.

The null hypotheses follow, plus a description of the statistical treatment used to test each hypothesis.

Null Hypothesis 1: There is no significant difference between the mean level of security-insecurity of the overall, general population of students at Illinois Central College and the mean level of security-insecurity



found by Maslow (N = 2,020) as given in Table VI of the Manual for the Security-Insecurity Inventory.

Treatment 1: A two-tailed test using z as test statistic was conducted at the .Ol level of significance to test the hypothesis of no difference in means.

Null Hypothesis 2: There is no significant difference between the form of the distribution of security-insecurity among Illinois Central College students and the form of the distribution found by Maslow (N = 2,020) as given in Table VI of the Manual for the Security-Insecurity Inventory.

Treatment 2: The form of the distribution of security-insecurity of Illinois Central College students was compared to the rectangular distribution of deciles in Table VI of Maslow's manual by using a frequency chisquare test at the .01 level of significance.

Mull Hypothesis 3: There is no significant difference among mean levels of security-insecurity as found in: (1) Business students; (2) Health students; (3) Technical students; and (4) Agriculture students, of Illinois Central College.

Treatment 3: A preliminary test using Hartley's F-max statistic was conducted to test the assumption of

homogeneity of variance at the .05 level of significance. The null hypothesis was then tested using a one-way analysis of variance technique at the .01 level of significance.

Null Hypothesis 4: There is no significant difference between mean levels of psychological security-insecurity in Day and Night students at Illinois Central College.

Null Hypothesis 5: There is no significant difference between mean levels of psychological securityinsecurity in Transfer and Terminal students at Illinois
Central College.

Null Hypothesis 6: The difference in psychological security-insecurity between Day and Night Transfer students does not differ significantly from the difference in psychological security-insecurity between Day and Night Terminal students.

Treatment of Null Hypotheses 4, 5, and 6: A two-way analysis of variance technique at the .01 level of significance was utilized to test hypotheses 4, 5, and 6 within the same test.

In addition to testing the above null hypotheses, descriptive data including sex, age, standing in high school class, marital status, and religious preference,



of all samples was tabulated as an aid to understanding significant differences that were found. An item analysis utilizing a chi-square test of independence for each item of the S-I Inventory was also performed to determine which items of the instrument discriminated between groups differing significantly in feelings of psychological security-insecurity.

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CHAPTER IV

RESULTS

Response of Samples to Approach

The approach used for data collection in this study was a letter of invitation and reminder postcard from the Director of Counseling at Illinois Central College requesting students to use free minutes on campus for the purpose of completing survey forms. Data to be collected was assembled into a self-administering instrument package. The researcher identified each student by name so as to match data collected with the appropriate sample. Students were then instructed concerning where to begin in the instrument package, and each student was allowed to complete the survey forms within the testing room at his own rate of speed.

It is the hope of the researcher that percentages reported from this approach may serve as guidelines for future research designs with junior college populations. Designs utilizing random samples are difficult to achieve operationally because of varying time schedules of individual students. Most students come on campus for classes, then leave, and many do not stay extra periods of time or return to participate in extra-curriculum activities.

Research may be conducted within classes, e.g. psychology

classes, but such a procedure may bias results. The approach used in this study was designed to avoid sample bias and to yield accurate pictures of populations sampled.

sent letters and postcards of invitation. Of this number, 191 students came to participate in the survey. One of these students, after reading the questions within the S-I Inventory, refused to answer. The total number who completed all forms was, therefore, 190 or 49 per cent of the 387 invited.

In addition to the 190 students who responded to invitations, 13 others volunteered to participate in the survey. The instrument package was administered to these students. They have not, however, been included in response percentages that follow in Table 6.

Per cent return figures in Table 6 are understated. It is impossible to pinpoint by total or by sample, how much higher these return figures should be. Data was collected after the last date in the second semester for students to withdraw from classes because of failing grades. Illinois Central College officials estimated that as many as 25 per cent of those enrolled at the beginning of the semester had dropped out by the date of data collection. Yet, all samples were selected from lists of



TABLE 6
RESPONSE OF SAMPLES
TO APPROACH USED

Population Sampled	Number Invited	Number of Responses	Per Cent Return
General Population	230	112	48.7
Business Students	30	12	40.0
Health Students	30	14	46.7
Technical Students	30	14	46.7
Agriculture Students	30	17	56.7
Night Transfer Students	50	27	54.0
Night Terminal Students	73ª	24	32.9
Day Transfer Students	9 <u>1</u> 10	42	44.7
Day Terminal Students	478	27	57.4

asample N taken from total representation within General Population Sample return (N = 112); number invited figure is a projection based on the percentage of this group within the total population of 3.347 ICC students.

students enrolled at the beginning of the semester. If officials' estimates are accurate, the return may have been as high as 56 per cent.

Because of the likelihood return per cent figures are inaccurate, it is difficult to interpret data within Table 6. Returns suggest the highest per cent of response from invitations may be expected from Day Terminal, Agriculture, and Night Transfer students. Such

a suggestion, however, must be considered highly tentative as a basis for planning future research designs.

Security-Insecurity Within the General Population

One of the major questions posed in this study was how are feelings of psychological security-insecurity distributed generally throughout the entire population of Illinois Central College students? The first two null hypotheses were tested by treatments one and two, respectively, to answer this question.

Null Hypothesis 1: There is no significant difference between the mean level of security-insecurity of the overall, general population of students at Illinois Central College and the mean level of security-insecurity found by Maslow (N = 2,020) as given in Table VI of the Manual for the Security-Insecurity Inventory.

Freatment 1: A two-tailed tost using z as test statistic was conducted at the .01 level of significance to test the hypothesis of no difference in means.

A mean of 18.6 was computed for the General Population Sample of 112 students. This sample mean compares closely with Maslow's stated mean of 19.5 for his

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population of 2,020. The z test found no significant difference between these means, and the null hypothesis was retained.

Mull Hypothesis 2: There is no significant difference between the form of the distribution of security-insecurity among Illinois Central College students and the form of the distribution found by Maslow (N = 2,020) as given in Table VI of the Manual for the Security-Insecurity Inventory.

Treatment 2: The form of the distribution of security-insecurity of Illinois Central College students was compared to the rectangular distribution of deciles in Table VI of Maslow's manual by using a frequency chisquare test at the .01 level of significance.

It was desired to use 200 or more scores to test this null hypothesis. Accordingly, a composite sample termed "Form of Distribution Composite Sample" was formed as shown in Table 7 below. This procedure resulted in 203 separate scores of security-insecurity.

Since the assumption of random sampling from the overall population was not followed in compiling the Form



Insecurity Inventory, n.p. Manual for the Security-

TABLE 7

MAKEUP OF FORM OF DISTRIBUTION COMPOSITE SAMPLE

Population Sampled	Selection Method	Sample Size
General Population of Students Business Students Health Students Technical Students Agriculture Students Night Transfer Students Undetermined	Random Random Random Random Random Random Random Volunteers	112 12 14 14 17 27 13
Subtotal Duplicate scores		209 -62
Total		203

Four Night Transfer, one Health, and one Business Student were also selected for the General Population Student Sample.

of Distribution Composite Sample, generalizations from the chi-square test cannot be made concerning the population of all students at ICC unless the composite sample can be shown to be truly representative of the total population. Table 8 shows that the composite sample is closely similar to all students enrolled Second Semester, 1968-69, in percentages of day, night, transfer and terminal enrollments.



TABLE 8

COMPARISON OF FORM OF DISTRIBUTION COMPOSITE SAMPLE AND SECOND SEMESTER

1968-69 ENROLLMENT

Description	Per Cont
ICC Students Enrolled Day	61.7
Sample Students Enrolled Day	63.0
ICC Students Enrolled Night	38.3
Sample Students Enrolled Night	37.0
ICC Students in Transfer Programs	47.8
Sample Students in Transfer Programs	53.2
ICC Students in Terminal Programs	52.2
Sample Students in Terminal Programs	46.8

Other data on the characteristics of the Illinois Central College student population enrolled Second Semester, 1968-69, are not available. Further comparisons were made, therefore, between the General Population Sample (N = 112) data, and the Form of Distribution Composite Sample. Two assumptions were made. First, it was assumed that the random sample of 112 students from the total enrollment of 3,347 students is a representative sample of the overall, general population. Second, it was assumed that a comparison between the General Population



Sample and the Form of Distribution Composite Sample is meaningful for purposes of determining whether or not generalizations can be drawn from the frequency chisquare test about the Second Scmester, 1968-69, population of ICC students.

Population Sample with that of the Form of Distribution Composite Sample. Seven per cent more students in the composite sample are male than in the General Population Sample; the composite sample has seven per cent fewer females. There is also a small difference in marital status, six per cent more of the General Population Sample being married than in the composite group, while the direction is reversed but with an equal per cent difference for the single category. In other categories there is very close agreement.

The most important comparison for purposes of the frequency chi-square (\mathbf{x}_1^2) test is between the per cent of scores within each of Maslow's deciles for the General Population and Form of Distribution Composite Samples. Changes in per cent values by decile between the two samples are reflected through score frequencies in a changed value of the test statistic, \mathbf{x}_1^2 . Thus, changes in per cents in this comparison might influence the outcome



TABLE 9

COMPARISON OF DESCRIPTIVE DATA FORM OF DISTRIBUTION COMPOSITE SAMPLE AND GENERAL POPULATION SAMPLE

Descriptive Category	Per Cent General Population Sample	
Sex		
Male	50	ピ カ
Fomale	50	57 43
High School Rank		
Top third	36	26
Middle third	50	36 51
Lower third	14	13
Marital Status		
Single	69	63
Married	29	3 5
Other	2	2
Religious Preference		-
Protestant	55	وده مما
Catholic	28	57 26
Jewish	. 0	∠ 0
Other	17	. 17



of the test itself. Note within Table 10 that the change in five of the decile categories would tend to increase the value of x_1^2 , while five of the categories would decrease the value. The average change in per cents by decile category decreasing x_1^2 is 1.6 per cent. The average change increasing x_1^2 is .8 per cent. Use of the composite sample instead of the General Population Sample for purposes of computing x_1^2 will, therefore, tend to decrease slightly the value of the test statistic, and such use should be considered as questionable for values very close to the critical region.

A chi-square value of 12.62 was computed as the value of the test statistic, and the null hypothesis of no difference in distribution forms was retained. This value is not close to the critical region, $\kappa_1^2 \geqslant 21.67$, and the use of the Form of Distribution Composite Sample may be accepted, therefore, on the grounds that:

(1) such use does not change the outcome of the test; and (2) the composite sample is representative of the overall population of Illinois Central College students.



TABLE 10

COMPARISON OF GENERAL POPULATION AND FORM OF DISTRIBUTION COMPOSITE SAMPLES BY PER CENT SECURITY-INSECURITY

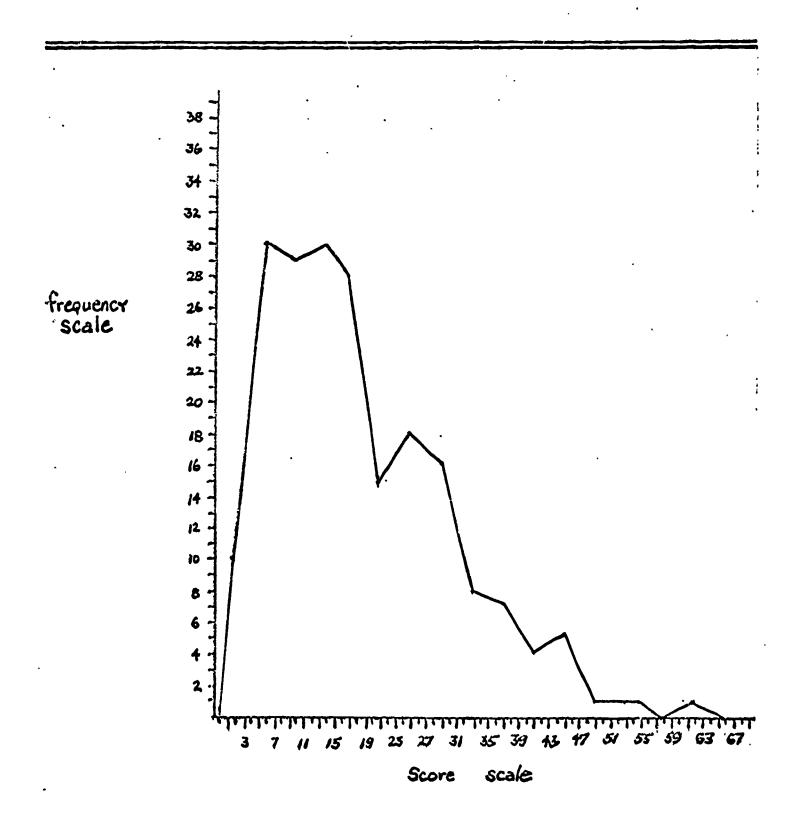
Maslow's Decile Classification ^a	Per Cent General Population Sample	Per Cent Form of Distribution Composite Sample
Very Insecure	6.3	6.9
Insecure	7.2	6.9
Tendency to be insecure	14.3	12.3
Average	11.6	9.3
Average	8.0	7.0
Average	12.5	14.3
Average	9.8	9.3
Tendency to be secure	8.0	12.3
Secure	8.0	9.9
Very secure	14.3	11.8

A. H. Maslow and others, Manual for the Security-Insecurity Inventory, n.p.

The form of the distribution of the composite sample is shown in Figure 1 below. This distribution, as Maslow's, is positively skewed with the greatest score frequencies found in the secure portion of the score range. The frequency distribution of scores for Figure 1 is contained in this study as Appendix D.



FIGURE 1
FORM OF DISTRIBUTION COMPOSITE SAMPLE
FREQUENCY POLYGON





Security-Inscentity Differences Among Curriculum Groups

The second major question of this study asked are there any differences in feelings of psychological security-insecurity between various groups within the overall population? The third null hypothesis as tested by the third treatment was included in the study to help answer this question.

Null Hypothesis 3: There is no significant difference among mean levels of security-insecurity as found in:
(1) Business students; (2) Health students; (3) Technical students; and (4) Agriculture students, of Illinois Central College.

Treatment 3: A preliminary test using Hartley's F-max statistic was conducted to test the assumption of homogeneity of variance at the .05 level of significance. The null hypothesis was then tested using a one-way analysis of variance technique at the .01 level of significance.

The preliminary test revealed that the assumption of homogeneity of variance applies to the populations sampled. The one-way analysis of variance test did not result in a significant value of the test statistic, F, and the null hypothesis was retained. Table 11 below

summarizes the one-way analysis of variance between curriculum groups.

TABLE 11
ANOVA SUMMARY OF CURRICULUM GROUPS

Sources	83	đ£	ms ·	F
Experimental Groups	143.3	3	47.7667	.411
Within Groups	6,165.6	<i>5</i> 3	116.3321	
Total	6,308.9	56		(

Security-Insecurity Differences between Schedule and Curriculum Types

Schedule types Day and Night, and curriculum types
Transfer and Terminal, were examined to help answer this
study's second major question, are there any differences
in feelings of psychological security-insecurity emong
various groups within the overall population? Null
Hypotheses four, five, and six and corresponding treatment
provided answers for this examination.

Null Hypothesis 4: There is no significant difference between mean levels of psychological security-insecurity in Day and Night students at Illinois Central College.



Null Hypothesis 5: There is no significant difference between mean levels of psychological securityinsecurity in Transfer and Terminal students at Illinois
Central College.

Null Hypothesis 6: The difference in psychological security-insecurity between Day and Night Transfer students does not differ significantly from the difference in psychological security-insecurity between Day and Night Torminal students.

Treatment of Null Hypotheses 1, 5, end 6: A two-way analysis of variance technique at the .01 level of significance was utilized to test hypotheses 1, 5, and 6 within the same test.

Two-Way Analysis of Variance

Unequal numbers were obtained for the matrix cells, Day Transfer, Day Terminal, Night Transfer, and Night Terminal, through the response to the sampling approach. To equalize numbers of scores within cells, it was necessary to select cut 18 Day Transfer, 3 Day Terminal, and 3 Night Transfer scores. This selection was accomplished by a random technique. The number of scores within each cell after the random draw was 24. The matrix of scores is presented in this study as Appendix E.

Table 12 summarizes the results of the two-way analysis of variance test. No difference in mean levels



of psychological security-insecurity between Transfer and Terminal students was found, nor was any interaction found between schedule and curriculum types. Null Hypotheses 5 and 6 were, therefore, retained. Null Hypothesis 4, however, was rejected. The difference in mean levels of psychological security-insecurity between Day and Night students was significant at the .Ol level. Day students, on the average, achieved a more insecure score than did Night students.

TABLE 12

SCHEDULE AND CURRICULUM TYPES
TWO-WAY ANOVA SUMMARY

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squere	ŗ
Rows (Curriculum Ty	19.26 pe)	1	19.26	.17
Columns (Schedule Type	1,953.01	1	1,953.01	17.15 ^a
Interaction	82.51	1	82.51	.73
Within Cells	10,475.71	92	113.87	
Total	12,530.49	95		

ap<.01

The rejection of Null Hypothesis & was verified by a further test. No difference between mean levels of psychological security-insecurity in Day and Night students was hypothesized. Scores randomly taken from the cells of the two-way analysis of variance matrix were again put into their appropriate cells. Separating matrix columns then provided random samples of Day and Night students. The hypothesis was then tested using a two-tailed test with z as test statistic. The outcome of this test indicated rejection of the null hypothesis, and was significant at the .01 level. Day students were confirmed to be, on the average, less psychologically secure than Night students.

Table 13 clarifies the difference in feelings of psychological security-insecurity between Day and Night students. All classification categories are as listed in the test manual except for the Average category. Four deciles are listed separately by Maslow, each corresponding to the term, "Average." These four are summed within Table 13 as an aid in pointing out significant differences. Note that over 30 per cent of Day students scored in the top three categories as compared to nearly 20 per cent of Night students. Nearly 15 per cent more Day than Night students scored in the Average category, while over 25 per



cent more Night students than Day students scored in the bottom three categories.

TABLE 13

COMPARISON OF DAY AND NIGHT STUDENTS
BY PER CENT SECURITY-INSECURITY

Maslow's Classification ^a	Day Students (N = 69)	Night Students (N = 51)
Very Insecure	8.7	2.0
Insecuro	7.2	9.8
Tendency to be Insecure	14.5	7.8
Average	47.8	33•3
Tendency to be Secure	7.2	9.8
Secure	5.8	13.7
Very Secure	8.7	23.5

A. H. Maslow and others, Manuel for the Security-Insecurity Inventory, n.p.

Day and Night Student Answers

Answers given by Day and Night students were tabulated for each of the 75 items of the S-I Inventory. A test of independence utilizing the frequency chi-square statistic was then conducted for each item. The null hypothesis for each of the 75 tests was that the type



answer given, "Yes," "no," or "?," is independent of the schedule type of student answering. The test of independence can be thought of as testing association or correlation between type of answer given and schedule type of student answering. If the null hypothesis is retained, then given the relative frequencies of a distribution of answers to an item, one could not predict which schedule type corresponds to the relative frequency distribution. If the outcome of the test indicates rejection of the null hypothesis, such prediction is possible.

Table II lists questions of the S-I Inventory for which the null hypothesis of independence was rejected. Values of the test statistic, x_1^2 , and degrees of freedom appropriate to each test are also given. The dr values vary because Cochran's suggestions for controlling small F values were followed. That is, it was necessary to reorganize data matrices for three of the items, eliminating the frequencies for the "?" answer because F values were too small.

Interpretations of significant items listed in Table 14 below must be made individually by item. These interpretations are listed in Table 15 which follows.

²W. G. Cochran, "Some Methods for Strengthening the Common x2 Tests," <u>Biometrics</u>, 10:420 (December, 1954).

TABLE 14
DAY AND NIGHT STUDENT ANSWERS:
CHI-SQUARE AND DF VALUES
OF SIGNIFICANT ITEMS

Question ²	dſ	x_f^2 Value
Do you get discouraged easily?	1	6.09hhp
Are you frequently in low spirits?	1	5.3765 ^b
Do you feel that you are useful in the world?	2	15.9211°
Do you spend much time worrying about the future?	2	9.3804°
Do you think of yourself often?	2	10.4274°
Do you feel sorrow and pity for yourself when things go wrong?	2	8.5874 ^b
Are you ever bothered by a feeling that things are not real?	1	10.0226°

aA. H. Maslew and others, The S-I Inventory, n.p.



bp<.05

c_p< .01

TABLE 15

INTERPRETATION OF SIGNIFICANT ITEMS OF DAY AND NIGHT STUDENTS

Question ^a	Interpretation
Do you get discouraged essily?	Day students tend to say "Yes" as often as "No," while Might students tend to answer "No."
Are you frequently in low spirits?	Night students tend to answer "No" without exception. Day students also tend to say "No" most often but many enswer "Yes," as well.
Do you feel that you are useful in the world?	"Yos" is the overwhelming choice of Night students. Most Day students also enswer "Yes," but many say "No," and "?," as well.
Do you spond much time worrying about the future?	Day students tend to say "Yes," while Night students say "No." There are many exceptions, however, in both groups.
Do you think of yourself often?	Day students tend to enswer "Yes," and "?," more often than Night students. "No" is the enswer Night students tend to give.
Do you feel sorrow and pity for yourself when things go wrong?	Many more Day students than Night students tend to enswer "?." Other differences are slight with most of both groups answering "No," elthough many say "Yes."

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TYBLE 15 (continued)

Are you ever bothered by a feeling that things are not real?

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Over a third of Day students say "Yes," while almost none of the Night students answer this way.

A. H. Maslow and others, The S-I Inventory, n.p.

Descriptive Data by Sample

Descriptive data including sex, age, high school rank by thirds, marital status, and religious preference, was collected from all students participating in this study. This data was tabulated to help in understanding results of statistical analyses. Table 16 presents the results of the descriptive data collection and compilation.

Discussion

The statistical analyses point to several important findings. Outcomes of testing the first and second null hypotheses indicate that the general population of Illinois Contral College students is very similar in feelings of psychological security-insecurity to the population of 2,020 used by Maslow as a norm in the Manual for the S-I Inventory. Mean levels and distribution forms do not

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TABLE 16 DESCRIPTIVE DATA BY SAMPLE

Sample	Z	Por Cont Sox	Cont	Avo.	Per Ranl	Per Cent Rank by 1	H.S. Intak	Fer Haritel	C)	ont Status	Per Ce Elous	ent Pre	by Rell.	eli-
		Male	Fe- malo	A ₿©	Top	Top Mid- dle	Low- er	Sin- gle	Mar- ried	Other	Prote	Prot. Cath.	Jour	Other
General Pop.	112	ଫ	SS.	24.5	36	S.	#	69	29	~	55	28	0	17
Businoss	12	83	17	22.8	හ	क्षे	ဆ	gy By	42	0	22	26	0	11
Health	Ħ	13	98	22.1	19	36	0	Ť9	36	0	1,2	175	0	16
Technical	Ť	98	13	22.8	36	52	۶	77	53	0	479	29	0	2
Agriculture	11	100	0	18.8	35	14	13	46	9	0	S	8	0	21
Day Prans.	तंद	29	33	21.5	21	ŭ	9, 13,	33	25	0	92	12	0	12
Day Torm.	র	53	17	21.3	33	萙	13	77	29	0	94	33	0	23
Might Trans.	न्र	弦	911	31.2	38	53	#	27	75	4	র্জ	42	0	=
Might Torm.	42	広	94	30.3	147	94	13	38	귟	ထ	જ	53	0	21

differ significantly for these two groups. Maslow seems to have presented his 2,020 in the manual for the purposes of:

(1) demonstrating that the distribution of security—
insecurity scores is positively skewed; and (2) providing the test user with interpretive labels for score ranges (deciles) to indicate the degree of security—insecurity that may be associated with any single score. Two conclusions are subsequently suggested by the similarity found between ICC students and Maslow's norm population:

(1) many more ICC students possess at least an average amount of psychological security than feel relatively or very insecure; and (2) labels and corresponding decile ranges of the test manual may be used to interpret scores of ICC students.

Following from the second conclusion is the inference that Maslow's clinical experience with types of treatment successful with clients differing in degrees of psychological security-insecurity may be applied to the population of Illinois Central College students. It may be seen from Table 10 that nearly 14 per cent of the General Population and Form of Distribution Composite Samples scored in either the Insecure or Very Insecure categories. These are the people Maslow speaks of when he writes:

My experience has been that those scoring in the lowest decile are almost certain to be suffering from a true neurosis or else from a



sovore situational neurosis, and that very fow people who are so diagnosed will score above the second lowest decile.

Approximately 14 per cent, therefore, of all students at Illinois Central College may be suffering from a true neurosis or a severe situational neurosis. These students may have personality disorders too serious for the junior college counseling staff to treat. Insecure and Very Insecure students should likely be considered for referral to mental health agencies outside the junior college where both the design of the program and the competency of the staff contribute to restoring these students to an improved state of mental health.

Table 13 shows that between the mutually exclusive categories of Day and Night students, approximately 16 and 12 per cent respectively, scored either Insecure or Very Insecure. Thus, the incidence of serious neurosis may be higher among Day students than in the overall population, while the reverse may be true for Night students.

If students who either tend to be insecure or who are considered average are those who can be regarded as having situational, normal kinds of problems, then the incidence of students who might benefit from counseling

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³A. H. Maslow and others, "A Clinically Derived Test for Measuring Psychological Security-Insecurity," The Journal of General Psychology, 33:33 (July, 1945).

may be approximately 56 per cent among the overall population, 62 per cent among Day students, and 41 per cent in the Night student population. Situational, normal problems are likely temporary in nature, however, and these per cent figures should be considered as rough approximations only for purposes, e.g., of planning counselor work load.

Data is presented by Maslow explaining the kinds of problems students have who score as Tendency to be Secure, or as Average, in security-insecurity feelings. He cites percentile means of 37.4 and 59.4 for 27 clients characterized as "miscellaneous problems connected with sex, marriage, children, [and] family," and 19 clients seeking "advice about graduate work, work in psychology, [and] school work," respectively. Maslow also lists problems that would fall from the third through the seventh deciles of the S-I Inventory. These range from "conflict between strong sexual impulses and strong moral inhibitions," to problems concerning "vocational advice." That these problems may be situational problems of normal people is suggested by Maslow's finding that five students characterized as "well adjusted, creative or both" scored in the



⁴p. 32.

⁵P. 31.

average range of the S-I Inventory.6

As shown by Tables 10 and 13, approximately 30 per cent of the overall population, 22 per cent of Day students, and 47 per cent of Night students, scored in the deciles characterized as Tendency to be Secure, Secure, or Very Secure. These students likely can be considered as having fully satisfied their needs for psychological security.

The outcome of testing the third null hypothesis was that there are no significant differences in mean levels of security-insecurity among Business students, Health students, Technical students, and Agriculture students, at Illinois Central College. Table 16 reveals differences in descriptive data of these four curriculum groups. The Agriculture students are all males, while the Health student sample was heavily female; Agriculture students on the average were four years younger than either the Business or Technical students; many more Health students than Business students report they finished in the top third of their high school classes; only 6 per cent of Agriculture students were married, while 42 per cent of Business students were; and equal numbers of Health students were Protestant and Catholic, while over twice as



^{6&}lt;sub>P</sub>. 32.

many Business and Technical students were Protestant as were Catholic. Evidently, the amounts of differences noted for those four curriculum groups did not influence the mean levels of psychological security-insecurity within the groups.

When the broader curriculum types of Transfer and Terminal were compared under the fifth null hypothesis, no significant difference was found in mean levels of security feelings. This finding agrees with the outcome of testing four curriculum groups, even though the four groups included both terminal and transfer students.

When interaction between schedule and curriculum types was tested under the sixth null hypothesis, again no significant difference was found, although a highly significant difference was found between mean levels of security in schedule types within the same matrix. The outcomes of testing Hypotheses 3, 5, and 6 all support the conclusion that differences in psychological security-insecurity do not exist at illinois Central College between varying curriculum classifications.

As shown in Table 12, the two-way analysis of variance used to test the fourth null hypothesis revealed a highly significant difference in mean levels of psychological security-insecurity between Day and Night students. The average Day student was found to respond in



a manner indicating less psychological security than the everage Night student.

Descriptive data in Table 16 reveal differences that may contribute to the relatively greater security of Night students. These students, for example, were over nine years older, on the average, than Day students. A higher per cent of Night students came from the top third of their high school class than did Day students, while more Day students than Night came from the lower third of their graduating class. More of the Night students were married. Only 29 per cent of Night students reported they were single. Day students who were single, however, comprised 73 per cent of the Day student sample.

Another factor that may be related to the relatively greater security of Night students is provided by Roberson's analysis of ICC students enrolled Spring Semester, 1968. Roberson found that the majority of Night students were enrolled for six hours of classes or less, while the median load for Day students was 14 hours. It is reasonable to assume that a comparable difference between course load exists for the population researched in this study.

⁷Glenn Roberson, "A Descriptive Analysis of Illinois Central's Student Body Spring Semester 1968," p. 20. Unpublished manuscript.

The results of the item analyses as interpreted in Table 15 further help in understanding the security—insecurity difference between schedule types. Night students seem relatively more mature, and more sure of themselves, in their answers than do Day students. Night students seem to know who they are, while Day students appear to be struggling to forge self-identity. Day students think of themselves often, and many are bothered by a feeling that their worlds are not real. This group reports worrying much about the future; many say they are often discouraged and in low spirits. Night students, by contrast, seem more stable, perhaps more established in their worlds, as nearly all in the sample said they felt useful in the world. Many Day students could not answer the same.

Conclusive statements telling which of the above factors are related to the increased feelings of psychological security evident in Night students cannot be made. This study was not designed to discover causes of psychological security-insecurity among junior college students. The researcher offers, however, the following explanation of the difference between Day and Night students as an hypothesis for further research.

Night students are more psychologically secure as a group than Day students, probably because Day students have not solved basic problems in social and vocational areas as have Night students. Most Night students, for example, have marriages of their own and have established independence from their parents. The average Day student is still in the process of choosing a mate and establishing a home separate from his parents. Also, most Night students have likely settled themselves into a vocation, or at least a vocational field, and have adjusted aspirations and goals in life more realistically to fit abilities, than have Day students.

Success or failure in social and academic areas of their junior college experience will likely produce a greater change in the self-concept of the average Day student than of the typical Night student. For the Night student, the junior college is probably just one of many concerns within the context of a rather stable life. For Day students, life is changing at a faster rate, and success in all areas of endeavor within the junior college is a major concern. Day students likely have much more at stake, academically and socially, that may change



self-identity, than do Night students. The psychological security of Day students is, therefore, likely threatened more often and by more kinds of variables than is the case with Night students.

CHAPTER V

SUMMARY AND CONCLUSIONS

It was the purpose of this study to discover how feelings of psychological security-insecurity are distributed throughout the entire population of students at Illinois Central College, and if significant differences exist among various subgroups within the overall population as regards security-insecurity feelings.

The population of students enrolled Second Semester, 1968-69, at Illinois Central College was sampled to obtain the necessary data. A total of 387 different students as represented in nine samples was randomly selected from the total enrollment of 3,347. The nine samples were chosen to represent: (1) the entire population; (2) Business students; (3) Health students; (4) Technical students; (5) Agriculture students; (6) Day Transfer students; (7) Day Terminal students; (8) Night Transfer students; and (9) Night Terminal students. The number of students within each sampling area who responded to the approach used and participated in this study is listed in Table 6 of Chapter IV.

Maslow's Security-Insecurity Inventory was administered to measure security-insecurity feelings of students. This instrument is a self-report questionnaire consisting of 75 items to be answered "Yes," "No," or "?" by the subject. The summed total of insecure answers becames the single score of the inventory. This score is an index indicating position on a continuum ranging from Very Secure to Very Insecure. A total of 14 definitions of security-insecurity comprise the syndrome reflected by the inventory's single score.

Data obtained were subjected to statistical analysis utilizing five methods. The test statistic, z, was used to test the hypothesis of no difference in mean levels between the overall population of ICC students and Maslow's norm mean based on 2,020 subjects. Frequency chi-square was utilized in testing to see if the form of the distribution of security-insecurity for the entire population of Illinois Central students differed from the positively skewed form of Maslow's population of 2,020. A one-way analysis of variance technique was applied to data secured from the four curriculum groups of Business, Health, Technical, and Agriculture students. Data representing the schedule types Day and Might, and curriculum types Transfer and Terminal, were tested by a two-way analysis of variance technique. A chi-square test of independence was then conducted for each of the 75 items of the inventory to determine which items had contributed to the significant difference found.

Chapter III more completely describes the population of students at Illinois Central College from which samples were drawn. Results of statistical analyses are contained in this study in Chapter IV. The instrument package used in data collection is included as Appendix C. The letter of invitation and reminder postcard are found in Appendices A and B, respectively.

A summary of results, conclusions drawn from these findings, implications for junior college personnel workers and instructors, and implications of this study for future research comprise the remainder of this chapter.

Summary of Findings

This surmary of findings presents answers to each of two parts of the problem question first stated in Chapter I of this study.

insecurity distributed generally throughout the entire population of Illinois Central College students? No significant difference between mean levels of security-insecurity of ICC students and Maslow's norm population of 2,020 was revealed by the z test. A frequency chi-square test comparing observed score frequencies of a representative sample of the overall population

of ICC students with the decile relative frequencies of Maslow's norm population also resulted in a finding of no significant difference. The distribution of feelings of psychological security-insecurity among Illinois Central College students is, therefore, distributed similarly to Maslow's norm population; that is, positively skewed with the largest score frequencies occurring in the secure range, and with a mean score not differing significantly from 19.5.

2. Are there any differences in feelings of

psychological security-insecurity among various

groups within the overall population? A oneway analysis of variance revealed no significant
differences in mean levels of feelings of
psychological security-insecurity among the
curriculum groups of Business, Health, Technical,
and Agriculture students. A two-way analysis
of variance test resulted in no interaction
between Day and Night schedule types and Transfer and Terminal curriculum types. This
analysis of variance also revealed no significant difference in mean levels of security
feelings between Transfer and Terminal

students. A difference significant at the .01 level was found, however, between mean levels of psychological security-insecurity of Day and Night students. Day students were, on the average, significantly more insecure than were Night students. Each of the 75 items of the S-I Inventory as answered by random samples of Day and Night students were then exemined for significant differences in answers chosen. technique used was a frequency chi-square test of independence. Corrections were made for small F values as suggested by Cochran. Three items were found to differ significantly at the .05 level, and four at the .01 level. Night student answers somed to reflect increased maturity, more confidence, and a sense of worth and stability. Day student answers seemed to show less confidence, less stability, and a greater concern with identity of self in relation to present and future worlds. A more detailed description of item analyses may be found in Tables 14 and 15, and in the Discussion section of Chapter IV.

W. G. Cochran, "Some Wethods for Strongthoning the Common x2 Tests," Biometrics, 10:420 (December, 1954).



Conclusions

Conclusions of this study as based on results of statistical analyses of data are these:

- 1. Illinois Contral College students as a population do not differ significantly in mean level of security feelings or form of distribution of security-insecurity scores from Maslow's norm population of 2,020.
- 2. Significant differences in mean levels of psychological security-insecurity do not exist between Transfer and Torminal, or among Business, Health, Technical, and Agriculture, students at Illinois Central College.
- 3. The difference in psychological securityinsecurity between Day and Night transfer
 students does not differ significantly from the
 difference in psychological security-insecurity
 between Day and Night Terminal students.
- 4. The average Day student at Illinois Central College tends to report feelings indicating higher degrees of psychological insecurity than does the average Night student.
- 5. The greatest differences between Day and Night students occur in the middle and lower score



ranges; Day students are more likely to achieve an Average, or a Tendency to be Insecure score, and Night students score more heavily in the Secure and Very Secure categories.

6. Items 14, 23, 27, 29, 39, 41, and 73 of the S-I Inventory tend to be enswered differently by Day and Night students.

Implications for Student Personnel Workers

Student personnel workers may facilitate security need satisfaction of students by holping to create within the environmental press of the junior college preconditions necessary for such need satisfaction. Maslow gives examples of these preconditions as follows:

Such conditions as freedom to speak, freedom to do what one wishes so long as no harm is done to others, freedom to defend one's self, justice, fairness, honesty, orderliness in the group are examples of such preconditions for basic need satisfactions. Thwarting in these freedoms will be reacted to with a threat or emergency response.²

The student personnel worker for whom this study has the most important implications is the junior college counselor. Escause he can offer the student a safe,



²A. H. Maslow, "A Theory of Human Motivation,"

Psychological Review, 50:383 (July, 1943). (Hereafter "Theory")

confidential relationship with an understanding adult, one knowledgeable in counseling techniques and practice, the counselor is in a unique position to facilitate the satisfaction of security needs. The counselor is ideally not a disciplinarian of the college. Nor does he evaluate students through assigning grades as must junior college instructors. Students may come to the counselor and find a relationship free from threat or evaluation. Exploration of academic, vocational, and personal problems may result in better decisions by students because their security needs can be satisfied within the relationship offered by the counselor.

approximately 16 per cent of Day students and 12 per cent of Night students to be so insecure as to need referral to a mental health agency outside the junior college. It is the responsibility of the counseling staff at ICC to identify these students, interview them to assess the need for referral, and either refer to an appropriate agency or counsel within the junior college. If the college accepts the responsibility for the personal growth and success of all its students, then this effort to satisfy security needs of those students who are most insecure must be made.



That Insecure and Vory Insecure students accepted the confidentiality offered them by the researcher, and that they had the courage to overcome their insecurity and answer questions in ways openly reflecting insecure feelings, suggests three points. First, these students may actually want someone to know about their feelings of insecurity; second, they may have appreciated someone being interested in their feelings and have responded to that interest; and last, these students would likely respond to offered confidentiality in future counseling relationships. The action of answering questions for many of those scoring in the two most insecure categories may be interpreted as a signal that psychological help would be welcomed.

Normal students scoring as Average or Tendency to be Insecure may feel relatively insecure as an accompaniment of situational, and somewhat temporary, problems. A relationship between such problems and feelings of insecurity is suggested by Maslow's data listing reasons clients came for therapy and their scores by percentile ranks achieved on the S-I Inventory. The implication for



³A. H. Maslow and others, "A Clinically Derived Test for Measuring Psychological Security-Insecurity," Journal of General Psychology, 33:30-32 (July, 1945).

this study is that roughly half of all ICC students (62 per cent of Day and 41 per cont of Night students) may benefit from counseling designed to simultaneously satisfy security needs and resolve situational, normal problems.

Need for counseling at Illinois Central College as indicated by degree of felt insecurity seems as needed in one curriculum type or area of pursuit as it is in another. For example, Business students need counseling for satisfaction of security needs as much as do Technical students. Also, both Transfer and Torminal curriculum types may be thought of as essentially the same in need for counseling designed to change or modify feelings of insecurity.

That Illinois Central College students did not differ in either mean level of security feelings or in the form of distribution of security-insecurity scores from Maslow's norm population of 2,020 suggests that the norm presented in the test manual may be used for interpreting scores of ICC students. Also, that only 7 of 75 items of the inventory were answered very differently by Day and Night students suggests that although the S-I Inventory was validated and normed on students between ages of 17 and 23, it may be used with Night students at Illinois Central College.



1

Implications for Instructors

Out of a given class of 20 Day students, 3 may be seriously neurotic, 12 may tend to be insecure or feel an average sense of security-insecurity, while 5 may be psychologically secure. Of a class of 20 Night students, 2 may be seriously neurotic, 8 may tend to be insecure or feel average security-insecurity, and 10 may be psychologically secure. Although these figures likely vary in practice, it is probable that every class at Illinois Central College contains a few students whose behavior may be relatively dominated by efforts to satisfy security needs.

Maslow theorizes that higher order needs such as self-actualization, and concomitantly, the fullest creativeness, may not be translated into behavior until propotent, lower order needs are relatively satisfied. Thus, instructors at Illinois Central College seeking creativity in students may need to facilitate satisfaction of students' security needs in order that students may be free to express creativity.

Research cited in Chapters I and II indicates the insecure person may be more dognatic and less effective



⁴A. H. Maslow, "Theory," p. 383.

in critical thinking, probably because his perceptual field narrows and important information is excluded. The secure student may achieve higher grades than the insecure, likely because he is more efficient and effective in critical thinking. Considerations such as these cannot be ignored by classroom instructors who seek to develop students' critical thinking abilities.

Instructors should learn to recognize insocurity in student behavior. Through warm encouragement, success experiences, increased individualized attention, and other teaching techniques, instructors can seek to alleviate students: feelings of insecurity. Instructors can avoid creating insecurity in students, e.g. through the excessive use of threats of failure, as well. Students who do not respond to techniques available to instructors within the practical constraints of classroom demands, and whose behavior continues to be dominated by a pressing need for psychological security, should be referred to the counseling offices of the junior college.

Implications for Future Research

Many possibilities for needed future research are suggested by this initial study of security-insecurity. Questions asked in the following four paragraphs might be used as the basis for hypotheses of future research.



Is the S-I Inventory valid as a measure of paychological security-insecurity with current junior college populations? Of most importance is the need for junior college counselors to clinically validate the S-I Inventory with current populations of students. Does a student's score predict, or accurately reflect, for example, his general state of mental health? Once validation has been more fully established with current populations, the inventory may be used with increased confidence as a quick and effective screening device for locating students seriously in need of counseling help. That one student at ICC who scored Very Insecure was referred to a mental health agency after interpretation of her test score indicates the instrument is valid with current populations; however, further support for this validation is needed.

What is the causal relationship of variables within the junior college environment to psychological security-insecurity of students? Very little can knowingly be done to identify or change conditions in the environmental press of Illinois Central College that cause feelings of security or insecurity until such studies point the way.

What effects does security-insecurity have on classroom performance? The finding that insecure students



achieve lower grades than secure students needs to be confirmed by further research. Again, the causal relationship needs to be determined. For example, do insecure
feelings cause, or contribute to, low grades, or do low
grades create the feelings of insecurity? Will techniques
of warm encouragement, success experiences, and increased
individual attention satisfy student needs for security?

At what level do feelings of psychological insecurity narrow onc's perceptual field, block critical thinking, and contribute to dogmatism in thinking? Is a certain amount of insecurity useful as a motivating force? At what point or level does a student's feelings of insecurity become so intense as to contribute to his academic demise? Is insecurity useful within the counseling relationship, and if so, at what point does it become detrimental to client progress?

Studies designed to answer all or one of the above suggested questions would provide valuable information for junior college staff. Only when needs of students are more fully understood can the junior college further its accomplishments as a student centered institution in all programs offered.



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APPENDIX A

Letter of Invitation

ILLINOIS:

CENTRAL : Public Junior College District No. 514

COLLEGE: P. O. Box 2400, East Peoria, Illinois 61611

April 9, 1969

Dear Student:

Illinois Central College is conducting a survey of its students in cooperation with Illinois State University. This survey is an important undertaking in our efforts to know more about our student body.

You have been chosen to help us in this important endeavor. The only requirement is that you answer a short questionnaire. This will require 15-20 minutes of your time on any of the following days or evenings:

DAYS

EVENINGS

April 17, 8:00 A.M.-5:00 P.M. April 16, 6:00 P.M.-9:00 P.M. April 18, 8:00 A.M.-5:00 P.M. April 17, 6:00 P.M.-9:00 P.M.

Please report to the Counseling Office when you are on campus during the above times. We will direct you to the building and place where the questionnaires are being completed at that time.

Sincerely,

ILLINOIS CENTRAL COLLEGE

Merlin C. Stratton Director of Counseling

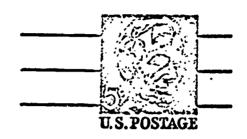
MCS:ds

110/111



APPENDIX B

Reminder Postcard



Mr. John Doe 1 Elm Street Peoria, Illinois 61600

A REMINDER:

ERIC

Please remember to come to the Counseling Office Wednesday evening April 16th from 6:00—9:00 P.M.; Thursday, April 17th 8:00 A.M.—5:00 P.M. or 6:00—9:00 P.M.; or on Friday, April 18th from 8:00 A.M.—5:00 P.M. to fill out the ICC-ISU survey.

It is very important, since only a sample of our student body is being asked to participate, that every person who was chosen come at one of the above times to fill out the survey form.

Let me thank you in advance for your time in helping us with this important endeavor.

Sincerely,
MERLIN C. STRATTON
ILLINOIS CENTRAL COLLEGE

APPENDIX C

The Instrument Package

405

START HERE, and please read ALL directions carefully.
Answer all questions; if you do not understand what
you are to do, please ASK the proctor who gave you
this package.

FIRST, teer off the card attached above that has your name and number on it. Notice that the same number is printed on the upper right hand corner of each part of the questionnaire package. This number is your SURVEY IDENTIFICATION NUMBER. If you wish to discuss the answers you give to this questionnaire with a Counselor, you must present your card with IDENTIFICATION NUMBER on it to him. We will then be able to locate your questionnaire by its corresponding number; otherwise, NO ONE at ICC will know which questionnaire is yours. To cheure complete confidentiality of your answers, then be sure you DO NOT PUT YOUR NAME ANYWHERE ON THE QUESTIONNAIRE PACKAGE.

SECOND, please check the SCHEDULE and CURRICULA listing below and fill in these two blanks:

MY	SCHEDULE	TYPE	IS		-
MY	CURRICULA	NUME	BER	IS	

SCHEDULE TYPE

Day Attendance (indicates that you attend classes only from 8:00 A.M. to 5:00 P.M.)

Evening (indicates that you attend classes only from 6:00 P.M. to 10:00 P.M.)

Both (indicates that you take courses during the day and evening sessions)

CURRICULA

Colloge Transfer Curricula, Leading to Associate in Arts and Associate in Science Dogree

010	Pra-Agriculture	070	Pre-Medicine
020	Art	071	Pro-Pharmacy
030	Businoss Administration	072	Pro-Dental
	and Commerce	073	Pre-Veterinary
0170	Education	074	Pro-Nursing
050	Pre-Engincoring	075	St. Francis Hospital
060	Liberal Arts and Science		

Career Programs Curricula, Leading to Associate in Applied Science Dogree

100	Agriculture Business	320	Medical Record Technician
101	Agricultural Production	330	Registered Murse
200	and Management Accounting	fifto	
205		:	Technology
-	Commercial Art	1,02	
210	Business Management	403	Chemical Technology
215	Secretarial	404	Data Processing
	Medical Secrotarial	• •	Tochnology
217	Legal Secretarial	405	Electronics Engineering
218	Executive Secretarial	•	Technology
219	Co-operative Office	406	
	Education	•	Technology
220	Office Machines and	上10	
	Procedures	413	Machine Design
221	Clerk Typist	1,12	
301	Operating Room	413	
	Assistant	~~ <i>)</i>	Enginos
310	Physical Therapy	1:20	Industrial Drafting
_	Assistant	-, -	Technology
		601	Police Administration

090	Goneral	Studios	900	Continuing	Educati on
0 70	COMOTAL	o oud 105	900	constanting	rangarion



THIRD, please fill in	the following	blanks:	
Today's Date	. My age is	. Sex	**************************************
Marital Status	(circle one)	Single Married Separated	Divorced Widowed
I graduated in my High School	(top, m	iddle, lower)	third of
There were appr		students	s in the
Optional: My religiou	s proference	Ls	•

FOURTH, please read the following general information:

The questionnaire is a survey of personality. It asks important and personal questions. Honesty, frankness and your sincers cooperation are required. The answers you give will be combined with those of approximately 400 other ICC students. As explained above, unless you identify yourself to a Counselor, the answers you give will remain confidential and will influence the survey results only as part of an average score.

This survey and the very important information it will yield will be no better than the accuracy with which you answer each question. Note: THERE ARE NO RIGHT OR WRONG ANSWERS, but only answers that are true for you.

FIFTH, turn directly to the GENERAL INSTRUCTIONS within the questionnaire itself. Read these directions and begin work. Work at whatever speed is comfortable to you.

THE S-I INVENTORY

A. H. MASLOW Brandeis University

with the assistance of

E. BIRSH

I. HONIGMANN

F. McGRATH

A. PLASON M. STEIN

name		DATE	AGE
(or pseudon	iym)		
Underline one:	Single Married	Divorced	
	Separated	Widowed	
Education			
(highe	est grade reached		
Occupation		School	
Height		ght	
Underline one:	Catholic Prote	stant Jewish;	or, if other
	(n.m. 2 de n		

Consulting Psychologists Press, Inc., Palo Alto, California
Copyright 1945 by A. H. Maslow
Copyright 1952 by the Board of Trustees
of the Leland Stanford Junior University
Printed in the United States of America



GENERAL INSTRUCTIONS

Read Carofully

If at all possible enswer all questions, being sure to choose only one enswer, "Yes," "No," "?" (undecided). Write an X under the enswer that is nearest true for you. Your enswers and any comments you may wish to add will, of course, be considered strictly confidential.

		An	swers	
		YES	NO	?
1.	Do you ordinarily like to be with people rather than alone?	• • • • • •	•••••	••••
2.	Do you have social ease?	•••••		• • • •
3.	Do you lack self-confidence?	•••••	•••••	••••
4.	Do you feel that you get enough praise?	• • • • • •	• • • • •	••••
5.	Do you often have a feeling of resentment against the world?	• • • • • •	••••	• • • • •
6.	Do you think people like you as much as they do others?	• • • • • •	••••	• • • •
7.	Do you worry too long over humili- ating experiences?	• 4 • • • •	• • • • •	• • • • •
8.	Can you be comfortable with yourself?	• • • • • •	•••••	• • • •
9.	Are you generally an unselfish person?	•••••	•••••	••••
10.	Do you tend to avoid unpleasantness by running away?	• • • • • •	•••••	• • • • •



	Anewers		
	YES	NO	?
11. Do you often have a feeling of lone- liness even when you are with people?	••••	• • • • •	• • • •
12. Do you feel that you are getting a square deal in life?	•••••	••••	••••
13. When your friends criticize you, do you usually take it well?	•••••	••••	••••
14. Do you get discouraged easily?	•••••	•••••	••••
15. Do you usually feel friendly toward most people?	•••••	•••••	••••
16. Do you often feel that life is not worth living?	• • • • • •	•••••	••••
17. Are you generally optimistic?	•••••	••••	••••
18. Do you consider yourself a rather nervous person?	••••	•••••	••••
19. Are you in general a happy person?	•••••	••••	• • • •
20. Are you ordinarily quite sure of yourself?	•••••	•••••	• • • •
21. Are you often solf-conscious?	•••••	• • • • •	••••
22. Do you tend to be dissatisfied with yourself?	•••••	••••	••••
23. Are you frequently in low spirits?	• • • • • •	••••	* • • • •
24. When you meet people for the first time do you usually feel they will not like you?	••••	••••	• • • •
25. Do you have enough faith in yourself?			



		A	nswers	
		YES	MO	?
26.	Do you feel in general most people can be trusted?	• • • • •	• • • • • •	••••
27.	Do you feel that you are useful in the world?	•••••	•••••	••••
28.	Do you ordinarily get on well with others?	••••	•••••	••••
29.	Do you spend much time worrying about the future?	•••••	• • • • • •	••••
30.	Do you usually feel well and strong?	• 5 # -2 # - 0	* • • • • •	• • • •
31.	Are you a good conversationalist?	••••	• • • • • •	••••
32.	Do you have the feeling of being a burden to others?	••••	•••••	••••
33.	Do you have difficulty in expressing your feelings?	••••	• • • • • •	••••
34.	Do you usually rejoice in the happi- ness or good fortune of others?	••••	•••••	• • • •
35.	Do you often feel left out of things?.	•••••	•••••	••••
36.	Do you tend to be a suspicious person?	••••	* * * * * * * *	••••
37.	Do you ordinarily think of the world as a nice place to live in?	••••		••••
38.	Do you get upset easily?	•••••	• • • • • •	••••
39.	Do you think of yourself often?	••••	• • • • • •	• • • •
40.	Do you feel that you are living as you please rather than as someone else pleases?	••••	•••••	••••

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	A	nswers	
•	YES	NO	?
41. Do you feel sorrow and pity for your-self when things go wrong?	• • • • • •	• • • • •	• • • •
42. Do you feel that you are a success at your work or your job?			
43. Do you ordinarily let people see what you are really like?			
44. Do you feel that you are not satis- factorily adjusted to life?			
45. Do you ordinarily proceed on the assumption that things usually tend to turn out all right?			
46. Do you feel that life is a great burden?	• • • • • • •		
47. Are you troubled with feelings of inferiority?			
48. Do you generally feel "good?"		•••••	
49. Do you jet along well with the opposite sex?	•••••	• • • • • •	• • •
50. Are you ever troubled with an idea that people are watching you on the street?	•••••		
51. Are you easily hurt?	• • • • • •	• • • • • •	• • •
52. Do you feel at home in the world?	• • • • • •	• • • • •	• • •
3. Do you worry about your intelligence?.	•••••	• • • • •	• • •
4. Do you generally put others at their ease?	• • • • • •	••••	• • • •

		nswors	
	YES	NO	?
55. Do you have a vague fear of the future?			
56. Do you behave naturally?	•••••	• • • • •	• • • • •
57. Do you feel you are generally lucky?.	• • • • • •	• • • • • •	••••
58. Did you have a happy childhood?	• • • • • • •	•••••	••••
59. Do you have many real friends?	• • • • • •	• • • • • •	••••
60. Do you feel restless most of the time?		• • • • • •	••••
61. Do you tend to be afraid of competition?	• • • • • •	••••	••••
62. Is your home environment happy?	•••••	• • • • • •	••••
63. Do you worry too much about possible misfortune?	•••••	••••	••••
64. Do you often become very annoyed with people?			
65. Do you ordinarily feel contented?	• • • • • •	••••	••••
66. Do your moods tend to alternate from very happy to very sad?	•••••	••••	••••
67. Do you feel that you are respected by people in general?	•••••	• • • • • •	••••
68. Are you able to work harmoniously with others?	• • • • • •	• • • • • •	• • • • •
69. Do you feel you can't control your feelings?	• • • • • •	• • • • • •	••••



		Answers		
	•	YES	NO	?
70.	Do you sometimes feel that people laugh at you?		• • • • •	
71.	Are you generally a relaxed person (rather than tense)?			
72.	On the whole do you think you are treated right by the world?			
73.	Are you ever bothered by a feeling that things are not real?			
74.	Have you often been humiliated?			
	Do you think you are often regarded as queer?			

APPENDIX D

Form of Distribution Composite Sample Scoro Frequencies

Classes	Frequency
72-75	O
. 68-71	Ō
64-67	0
60-63	1
56-59	o ·
52 - 55	1
48 -51	1
1,1,-1,7	5
40-43	1,
36-39	· 7
32-35	8
28-31	16
24-27	18
20-23	15
16-19	28
12-15	30
8-11	29
4-07	30
0-03	10
	Total N = 203

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Two-Way Analysis of Variance Showing Security-Insecurity Scores for Curriculum and Schedulo Types

Curriculum	•	Schedule Type								
Туре		Day				Night				
Transfer	45	28	21;	15	34	址	10	5		
	44.	27	23	15	33	13	9	Į,		
	314	27	21	13	29	13	8	4		
	31	21,	18	9	20	13	7	4		
	30	24	18	9	16	12	6	4		
	29	24	16	2	15	10	5	1		
Terminal	47	29	17	11	37	22	13	6		
	46	29	17	7	32	20	11	5		
	42	28	17	7	28	19	9	5		
	36	23	16	7	27	16	8	4		
	36	20	13	7	24	15	8	3		
	35	20	12	5	22	13	7	1		

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